#### U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary WEATHER BUREAU F. W. Reichelderfer, Chief

# STORM DATA

JULY 1963 Volume 5 No. 7



			PATH	Ŧ	NO. PER	OF SONS	ESTIM. DAM					[ ]	РАТН	Ę		OF SONS	ESTIM DAM	ATED <sup>†</sup>	
PLACE	DATE	TIME	LENGTH OF I	WIDTH OF PATH (YARDS)	KILED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
ALABAMA	1	1	1					1		ARKANSAS (Cont'd									ĺ
Verbena, Chilton County	2	Day			1				Electrical	Pine Bluff, Jefferson County	22	2:30 p. to 3:30 p.	40	<b>* 40</b>	2	0	0	0	Wind end electrical
Falladega, Talladega County	St	6:00 p ruck by 1:	ghtnir	g while	walk	2 ing i		pen fi			by 1	11 line pe	Anoth	ver Sta	te. str	Meno. lok b	at Tuck	or Pr	som Farm kille tree limb,
Limestone & Madison Counties	Hi	attered da	mage t	o prope	rty a	nd c	ops.	Most 1	Thunderstorms storms caused coperty damage d 70 mph. All	Crawfordsville Crittenden County	25	6:30 p.	t	nouthwe	0 ster	o y•	0	0	Funnel cloud
	CI W	rpp damage ind and 109	due to	high w	inds.	905	of p	ropert;	damage due to	CALIFORNIA COLORADO				reported					)·
Mcbile County	So	2:00- 3:00 p ettered p	operty	damage	l as t	0 hundi	4 erstor	0 move	Thunderstorm	Larimer and Boulder Counties	A fu	6:50PM	1/2 passe	d over	O Longs	ont	3 nd la	er to	Tornado uched ground ne
	pe ha pe	rson and dail damaged ower lines.	ow kil autom Seve	led in obiles ral bos	barn and r ts ar	hit I igh t chor	y ligh rinds h d in h	tning lew do lobile	Bay. One Golf ball size own trees and Eay swamped. thning 10%.		down buil	trees, fe dings were ado, as th	в веод рашаб	nd tele ed east	phone of I	pole	s. A	few he	Collins, blowing ours earlier, for consibly a small funnel cloud in
Madison, Morgan and Cullman Counties	21 <sub>4</sub>	all, high t	inds s	nd tori	0 entis	0 l rat	6	5 sociati	Thunderstorms  d with severe Hartselle busi-	Kit Carson County	A sun	Afternoon all tornad aity of St	o dama	ged far	o n bui	0 ldin	5 s and	power	Tornado poles in the
	ne le si	ess districes than 2 ize damaged conties and	t floo hours crops south	ded as Hails in eas ern por	an es torm tern tion	tima with port of M	ed 6 hail ons of dison	nches tones Cull Count	of rain fell in up to golf ball nan and Morgan r. Scattered	Sedgwick County	Hail	Night and heavy crops in	rain the O	damaged wid-Sed	o over gwick	0 6,00 ares	O aore		Hail & heavy r sugar beets and
	da Al	mage to pr Ll crop dar aln, 20% to	operty age du wind	, utili e to ha and 5%	ty li il. to ha	nes 75% il.	nd tro	es fro	m high winds. Jamage due to	Pueblo County	A ol	h when a f highway.	lash f	lood sw	ept t	he or	r in v	hich l	Heavy rain in the death of he was riding o er in the Arka
ALASKA ARIZONA	}	No repo	rt re	ceived	by	prin	ting	deadl	ine	Denver	15	Night		hurne	0	1	air hy	1 tehte	Lightning ing while he w
Labee	10	1:20 p.			0	0	0	0	Tornado		pain	ing a bui	lding		h Den	ver.	*5		
ucson	Funi 21	nel cloud 2:45 p.	ouche	ground	in o	open O	lesert 4	just	south of Bisbee	Phillips and Sedgwick Counties	Hail	Afternoon and rain	damage	d sugar	0 best	o s and	other	oropa	Wind, hail & r in the Ovid- iled up to sev
	Str				ha	hund	erstor	n seve	rely damaged an		inch	s and sto	ies up	to li	noh i	n die	meter	were t	eported. Wind
ucson	22	5:00 p.			0	1	5		Wind, rain, lightning.	Weld County	Ligh	5:30PM tning stru about 10 :	k and niles	killed southea	a ma st of	o whi	le he	was in	Lightning rigating on hi
	Street dame	ong winds eway Airpo aged autom sed extens	aused t when biles, we dan	consider e flying homes hage to	rable g del and a dri	e dam bris coun ag st	age to injure ty roa bre.	plane i a bo	s and hangars at y. Flooding lightning fire		Hail	fell in M						anied	Hail & Lightni by 3/4 inch of a house in Col
guila		Afterno d, accompa rly all da	ied by			0 11,	5 damage	i prop	Wind erty and utilities.	Delta and Montrose Counties	Heav	Montrose a						rley (	Heavy rain & h and bean crops northwest of
enson	24 Stro	5:00 p.	amaged	roofs	and o	O vert	4 arned	nouse	Wind and rain trailer. Water	Morgan, Logan and Phillips Counties	Ligh	Afternoon Evening tning, win	i, rai	n and s	ome h	o ail o	4 id her	vy dar	Hail, rain and lightning age in the For maged a plane
ARKANSAS Rison, Cleveland County	18	7:30 p. to 8:00 p.	1	7	0	0	4	. 0	Electrical		and Ligh caus than	looding. ming put d floodin an hour.	Over phones in S Basem	5 inche out of terling ents in	orde wher busi	rain r. I e 2.I	fell : ater i 6 incl and re	n the n the es of siden	re damaged by Holyoke area. evening, heavy rain fell in l tial districts one lines and
		1 -	bevor	n south	tweate	rly	direct	ion de	stroying a house	Pueblo, Crowley, Otero	fire	to severa						Ì	Hail, rain & w
Hot Springs, Parland County	17 Thu	1:00 a. to 11:00 a.	2 remain	880	l cit-	O rott	6 Int So	C	Flash-flood	Bent & Baca Counties	A her at u	7:30PM vy rainst to SOMPH ern Pueblo	Count	d damag y to La	e alo s Ani	ng ti	nd sou	nsas I	nd winds estin alley from nor through Baca aw area, where
	sun est	roximately rise. Rain ablishment a numarous	fall of along	ver the Centre and bri	arei 1 Avi	tot nue in G	short eled 8 vere d erland	to 10	of time before inches. Business extensively as y. A child		large erop to fi	hail and , buildin ve inches ted some	heavy s and in th laces	rain d roads is area along	nd k	illed ve to	igh wi farm six i	nds de stock nohes storm	stroyed or dam Hail piled u of rainfall wa causing exten
Jorfork Dam, Baxter County	17	5:00 p. to 6:00 p.	†	7	0	5 5	0	0	Wind end rain	El Paso County	8 mi 27 Hail:	e stretch Afternoon tones rang	of Hi	ghway 8	0	o upt	•3 to 2 ir	C ohes 1	Pueblo flooded Hail In diameter fel
	from seve	s south to eral trees seriously	north, Two	pullir persons	g up	tent	minor	les an injur	Wind shifted uprooting les. One woman, case in a falling	CONNECTICUT	et s Colo Roof	attered s	ots i	the Mo	anito then	z Spi Franc	inge e	rea ar	d from North Force Academy Hail
delena, Phillips County	tent 20	9:30 p. to 10:00 p.	11	<b>*</b> 5	ı	0	0	o	Wind and electrical	Chester, Deep River, Killingworth; Middle- sex County and Nauga- tuck, Wallingford; New Haven County	Ha:	5:00p - 6:00p 1 up to 1 thunders it and we	orms 1	vith mod	eter erat	accon	panied	se⊽-	

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			РАТН	Ŧ		OF SONS		ATED†			<u> </u>		РАТН			OF SONS		ATED1	
PLACE			무양	PAT (SO				-	CHARACTER OF	PLACE			S) PA	A S	PER	CANDE		MGE	CHARACTER
	DATE	TIME	LENGTH (	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	STORM	PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
CONNECTICUT (Cont idgeport, Fairfield unty	5 2:4 Sms11	watersp	out 1	Long :	0 Slan	0 1 Sou	0 nd off	0	Waterspout	FLORIDA (Cont'd) Pt. Myers ise Co.	25	After-			٥				Waterspout
ddam, East Haddam, ddlesex County	Bridge 19 5:2 Small	Op funnel	cloud	Narrow observe	d by	0	j ral wi	l <sub>i</sub>	Tornado	Sarasota Sarasota Co.	25 St re	4:00 pm rong winds staurant s	accon	panying aged of	o thu	o ders	9 torm d	croofe dings	Wind d a
	from 2	lowed a miles woir, mo	ESE of	Black	Shop	Pond	to Mo	odus		Titusville Brevard Co.	28	11:00 an			0	0			Waterspout
	power tures	msteore lines, and dow	logica damage med se	al tower ed the r everal :	at oofs arge	of s tree	eight, everal s. Sto	ripped struc	ií l	West Palm Beach Palm Beach Co.	28				٥	0			Funnel Cloud
	Waves	on Con 3 feet	ectic	at River	r an	d hea erved	to be	n. at		Tampa Hillsborough Co.	26 St	6:00 pm orm moved reral buil	west t	100 o east,	CAU		nor d	emage 1	Tornedo to
ndsor, Hartford Co.		jured b	y fali	ling tr	0 se li	1 1b.	0	0	Thunderstorm	Mt. Dora Lake Co.	Pu	6:00 pm nnel cloud	tough	ed down	on 1	O alce	3 Sertru	de, the	Tornado n moved
irfield, New Haven, uthern Litchfield d southwestern	20- 10: 21 20t				0	0	· 5	l,	Thunderstorm	GEORGIA	52	nore causi saipating pm	ng mir	or dama	2	1	ral r	esidend	wind, hail, ra
rtford Counties	betwee	ring sho	venin	of Jul	Ly 19	and	the mo	rning			Seve	re thunde:	rstorm:	during	aft	ernoo	n and	evenin	and electrical g caused damage proofed and hail
	of Jul	y 20, o	speci.	lly her 7 21 wi	h ex	ains cessi	ae spo	ed on			dama	ged crops	in Ir	rin and	Berr	ien C	ountie	s. Th	e Omega area of ldings and crops barn. Wind and
	15 mil	precip les on e tport	itati ither	aide o	22 1	nches Lne f	along rom Ca	and nton			ligh	tning dame	ged pe	wer and	tel:	ephon	e line	s and	a house was
	to Wol	cott. B	ridgej	ort rec	orde	1 2.2	5 inch	es in											Two women wer near Thomasvill
•	hours. strike section	While s and p ms, gre	stree: over c atest	flood: outages damage	ings, were occu	ligh comm red i	tning on in n Wate	many rtown		Southeast	11 Golf Libe	pm ball size rty and Me	hail Intosl	fell bi	0 riefl ies.	0 y in Ligh	3 parts t wind	of Car	Hail and wind den, Glynn, also reported
	Steele over 5	kville Brook O famil	which ies a	caused ad sever	the	evacu	ation	of		Gainesville, Hall		amden Cou 4:30 p			0	0	4	0	Wind and hail
DELAWARE	homes,	factor	ies ai	nd road						County	Wind	damaged a	ın air	condit:	onin	g bui	lding	and ri	pped the roof f
ate-wide		ly ning &			0	0	4	٥	Lightning		upro prop	oted and	ther:	small bo ome wind	ildi	ngs d	amaged	. Hai	ll. Trees were I caused minor in Murray Count
	Fires, c	aused b	y ligi	tning,	dama	ged a	t leas	t four	homes.	HAWAII				repor	ted				
theastern		20p - 20p			0	3	5	0	Thunderstorm with high winds, and lightning	IDAHO Kellogg		8:00 p					?		Hail tely east of
	Violent widespr	storm ead dam	with mage,	gusts : especia:	p to ly i e-ty	59mp n nor se to	h at W theast wers,	ilming part built	ton WBAS, caused of Wilmington. to withstand		Kel	logg did automobi	xtens	ve dama	age t	ro0	fs, ge	rdens,	buildings, win
	most st	ne forces of turned	e wind one a and po	is, were shopping ower fa	top cen lure	pled ter s s wer	or til hatter e repo	ted, ed, S rted 1	Store windows in core or more trees a at least two	Nez Perce and Latah Counties	7	Afternoor & evening	1	-				6	Hail and wind
PLORIDA									also reported. ghtning.		dur dam	ing aftern age to gra	ioon wi	th mode Same ev	rate enin	to h	eavy d	amage torm e	enesee hit by h to peas, veriab ntered Nez Perc
Ft. Myers Les Co.		fter-	i		0	0			Furnel Cloud		cau Whe	sing exter re pea fie	isive o	lamage t re hit	dama;	ne 50 se wa	,000 a s near	eres of	everal miles, f cropland. al while on whe
Tampa Hillsborough Co.	1 51	15 pm			2	1			Lightning	Cambridge	17	barley fi					4		Lightning
New Smyrna Beach Volumia Co.	3 4:	:00 pas		-	٥	1			Lightning	Clark County	i i	Early morning	TATIL S	acuine.	y de	1	20 111	TITE B	Lightning
West Palm Beach Palm Beach Co.		fter- soon			0	0			Funnel Cloud	TI I TROTS								es res	ilt of lightnin
Volusia Co.				narrow ck boat		0	3 N.W.	and or	Tornado Lake Monroe	ILLINOIS Rest St. Louis	2	5:40p			0.	ı	-5		High wind, lig
Samoset Manatee Co.		:00 am ming str	uak b	alk gas	O oline	o stor	5 age, 1	miti	Lightning ng 4 storage tanks		High wind	winds dan	aged :	coftops	and	upro ty li	oted a	and barol	te trees to dam ing caused mino
West Palm Beach Palm Beach Co.		fter- noun	short	narrow	0	0	3		Tornado	Rock Island County	dama							ed by 1	falling plaster Heavy rain, wi
Courtenay Breward Co.	Fune	:00 pm l cloud e to Moi	dippe	d to gr	bund		ly and	Camp	Tornado ed slight		of d	amage caus	ed by	falling	lin'	bs or	trees	ed util	local flooding lity lines. Mo c activity w
Ft. Myers Lee Co.	12 4	fter- noon			0	o			Punnel Cloud		Wind plac	gusts of ed instrum	70 mpl	about ut of c	4 am	at M	oline More	than	im and 5am on 1 fore power fai 5 inches of rai 5s were flooded
West Palm Beach Palm Beach Co.		fter- noon			0	0			Punnel Cloud	Lake and Cook Counties	with	damage to	cars	and but	Dd1n	88.	1		Funnel aloft,
New Harmony Walton Co.		fter- noon ning sti	ruck e	pa kun	l ed fe	o ra tr	actor	pperat	Lightning		Wind util	damage wa	Hail	of 1 t	brol	ken t	rees f	alling	hail, heavy ra on buildings a fell near int
Jacksonville Duval Co.	1 1	:15 pm	1	300	0	0	3		Ternado		in d	immeter fe	il at n Chic	Park Fo	west.	1 1	ch of sider	rain f	t. Hail 12 in in about 20 min coal flooding.
Pensacola Becambia Co.	1 1 1	2:30 pm	tersp	quite mo	o n	orthe	5 autwar	d, cos	Tornado rerged,	Chicago and vicinity	21	5-8p	- 1000	A. 14156	O MIC.	O	,	,	Heavy rain, win
	and t	then move t 10 mil camps,	es no	stward : et of P	l ong	shor	Storm	atted hid h	glagoon sted 3		31-1	damage mo	ain fe	41 in 4	<b>h</b> on	TO A	one	limbe. locatio	hail Approximately n. Hail 1 ind
	and a	ome pie	re da	neged.	Γ,		T	1	1	H	in d	iameter at	Midw	y WILLS	a Bou	t 6 р	•	1	

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			PATH	Ĕ		OF SONS	ESTIM DAW	ATED1	]				РАТН	E		DF SONS	ESTIM. DAM		
PLACE .	DATE	TIME	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
ILLINOIS (Cont'd	28	aftn			.0	0	?	7	Heavy rain	KANSAS (Cont'd) Osage County	12	late evening				2			Heavy rain
•	floo	led in sou	thern	Pike Co	unty.	Piv	e incl	es of	of corn and beans rain at Pleasant		A ce	r crashed	into	tree .	lue t	o 511	nding	rain d	pring a severe
	Hill	and eight	inche	s at Ne	bo in	six	to ei	ht ho	r period.	Greeley, Wichita,	13	derstorm, 4:00 p.				-			Violent wind,
INDIANA Northern Indiana	10				3	1			Probbatan batt	Kearny, and Hamilton Counties					ŀ				hail and heavy rain
		evening	ra th	ndoreso			- 4		Lightning, hail, rain nities as Michigan		Many	acres of	maize.	in thes	e co:	ntie	Ma i e	damag	d. One hail
	City	LaPorte,	South	Bend,	Elkha	rt, (	oshen	and	Fort Wayne. People and Argos. Power	1	wide	. Addition	nal st	rips we	re 1	evi	tence:	TOR 6	g and 3 miles storn Greeley
	and	elephone	servio	es were	brok	en fo	r sev	ral h	ours at some places. rees or flooded by		as I	arge as be	sebali	e in sc	coe au	BAS	but mo	st dame	y. Stones were ge was from the
	the	compour.	Winds	at the	Sout	h Ber	d Weat	her B	reau were NNW at		Boff	and allow	ed the	maize	to re	adil	y blow	over :	made the ground in the high wind,
	was		at \$10	0,000.	At t	he M	chi gai	City	Airport several		Bize	d hail. S	ome st	ODES A	re o	dd sh	aped,	lat a	to golf ball- ad about the
Oxford, Benton County									Funnel cloud	Northwest Counties	14	Evening	, 						Hail, 2 funnel
Lake County	22	6:15 p.							Funnel cloud	MOLETHORC COURTERS								1	clouds, high
	Betw	een Schnel	der ar	ud Hebro	n.						Loca	l hail dan a number	ages of	f vary	ng e	tent Rav	and s	verit	were reported ast to Smith
IOWA											Cour	ty and as	far so	uth as	Ne sa	Coun	у, Е	pecia.	
5E Tipton	1	7:00 p	Į	300			4	4	Windstorm		826	ern Rooks	and no	rth cer	tral	Neas	count	ies. S	tones varied ore, peas to
Lenox Traer	2	4:30 p	ì						Funnel cloud		Sme.	1 oranges	near E	anson,	BODDS	of g	olf ba	ll size	east of less County.
West Central	16	4:30 a					5	5	Lightning Windstorm		The 10:0	storm hit Op. Stor	Downs ns ger	about (	:00 ]	from	a nor	Count;	about direction. litions prevailed
Division		ttered h	ail.				,	,	Willestorm		Just	prior to	the ha	11. E	es C	ounty	damag	WS.S	stimated at
Rock Rapids	16	8:15 p	3	200			4	4	Tornado		abou	ut \$175,000 ut 15 miles	norti	ly to o	rops Nor	Twon.	o funn	1 clo	ds sighted
Lyon & Sioux Counties eastward to Emmet & Palo Alto Counties	16	9:00 p					5	5	Windstorm	Soward and Heads Counties	15	6:30 p 7:15 p.							Fonnel cloud, severe wind, hai
Taylor & Ringgold Counties	17	2:30 a				}	4	4	Windstorm		clou	i about 6 era Seward	miles Count	east of	Lib es l	ral;	a bai	l-dama, mile	in a funnel ed path in ride, from age in and
Southern half Northwest Division		10:15 p				1	6	6	Windstorm	Barton and Saline	aro	ind Meade 1	ron a	sudden	gust	1	ls.		Small tornado
& northern half West Central Divi-										Counties	17	midnight		ļ				1	and hall
sion	30%	damage	due 1	o hail	l, 5%	dan	age 1	ight	ning.		resi		out th	е зале	t ime	hail	the B	ze of	hen eggs fell
Winnebago-Hancock through Mitchell-	18	11:00 p					6	6	Windstorm		in S	alina. St	ones v	ere not	אמענית	rous	but c	used	ome automobile
Floyd Counties		damage		o hail	l  <b>.</b>		ļ.			Thomas County	18	6:30 p.							Severe wind
East Central Divi- sion and Washing- ton & Louisa	19	11:00 p -4:00 a					6	6	Windstorm		bas	den but v trees from	Colby	north	st of	win ever	dama,	ed but	ldings, fences concrete block
Counties	70	mph. occ	urred	l, rain	ıs ex	ceed	ed 5	inche	e winds to s and scattered ops, rain 10%.	Osborne and Russell	27	Late	over.						Hail, two funnel
Malvern	22	2:30 a				"	4	4	Hail	Counties		afternoon	l						clouds and torrential rain
Sioux Center	29	4:00 p					4	5	Hail		Pare	funnel clo dise at 3:	22 p.	and 3:5	Юp.	Tor:	entia	rain	struck Russell
Kansas	2 i	nch diam	eter.			ļ.					Ha11		f dall	size	fell	OVER	much o	f nort	in 2 hours. hern Russell
Johnson County	3	Afternoon			1	1			Electrical	Stanton and Grant	27	6:00 p	g roor	a, arm	DWH E	Ma 80		l	Hail and heavy
	One	girl was	k111e	and an	the	inj	red b	ligh	tning in Olathe.	Counties		midnight							rain
Shawnee County	3	Evening .				ı	4		Severe wind		nort	hwest-sout	heast	path ac	r088	nort	ern S	anton	by hail in a and southern
		ousetraile of wind.		overtuz woman v	rhed 4	mil	8 80U	th of	Topeka by a severe		Rabl	te and ph	pasant	S WOTE					o the ground. torm. Heavy
Morris County	6	4:30 p.	∪ne	PUESTA 1	- 11	jurec	Ï		Severe wind	gt 0t-	1	caused mu		oding.		-			T-41 1
Journy	1		DWT -	mm e 1-	1	n the	lldina	4000	al miles west of	Sherman County	29	Afternoon	1						Eail and high wind
	Cou	icil Grove	. No	funne1	cloud	W8.8	sight	ed but	a marrow path d bales had been		Cons	iderable d	amage	was don	e to	crop	and	uildir	gs over an area dust storm caused
	car	ied away	by wha	t may h	ave t	907 8	n inc	pient	tornado.		75 ₽	by Aing As Aingons As Aingons As	s foll	owed by	rain	and	hail.	Crops	, roofs, trees,
Wichita County	11	10:00 p.				İ			Heavy rain, high wind, hail and	Northeast Kansas	31	4:00 a-	TO UAL	aged.		1			Hail, severe win
									electrical		Г	4:45 a.	ersto	E 2076	fro	n Net	rasios	ļ	electrical priheastern
	res	ulted in t	pe lo	sport 60	oo tur	көув,			the county ildings, some		from	as and cer Horrill	tered hroug	over B	own haa	Count ad to	Evere	most st. T	sovere damage se severe wind
	cro	s and out	ages (	r utili	ties.	1					bro:	e tree liz dings and	abs, u	prooted building	othe	en o	Roofs	ere t Props	orn from numerous were flattened.
Barton County		5:30 p.							Tornado		Hai	s were exp	crops loded	and lead	ven:	rom bol	trees te. S	and br Lgns w	oke windows. ere damaged
	of I	all torna llinwood.	do to	pped gr	round	nome	taril	a fe	miles northeast		by light	oth wind a	ind ha:	il. Tra	nsmi Hai	Bion 1 sto	lines nes up	to go	red from If ball size were
Harvey County	12	8:25 p.		1		1			Pornado and		rep	rted in se	veral ing c	areas.	The	to wa	s some	indic	ation of tornadic h as Ottawa in
•									funnel cloud		١.	klin Count	у.						
	MOA	d southea	st.one	lowere	d ove	r the	Newt	n Bas	ton. As they t View area,	Northwest Kansas	31	6:00 p. 7:00 p.							Hail and damagin
	dam	ging a mu munication	pper (	of roofs	ı, gar	eges,	tree	and a	breaking		Sev	ral local	ties:	in Chey	ano,	Sher	man ar	n Sher	idan Counties e-sized hail.

				F PATH	РАТН S)	NO. PER	OF SONS	ESTIM/ DAM		CHARACTER				F PATH	PATH S)	NO. PER	OF SONS	ESTIM/ DAM	ATED†	CHARACTER
PLACE	DATE		TIME	LENGTH OF (MILES)	WIDTH OF PAT (YAROS)	KILLED	INJURED	PROPERTY	CROPS	OF Storm	PLACE	DATE	TIME .	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
KENTUCKY Webster County	1	10-	ll a						4	Rain, wind, hail	MAINE (Cont'd) Southern and coastal areas	1	Afternoon			0	1	4	0	Electrical
	Loca	11y -8a	heavy ssafra	damag	e to com	n an	l tob	acco 1	n the	Onton	7	Nu	merous lis	htning	strike	5 CAU	sed r	idespr	ead be	brief duration. t mostly minor
alloway County, urray Area	l	5:1	Lр	1	300 - 500			4	3	Tornado		th	e metal su	ing-co o disr	uch on upted 1	which n man	he v	88 568	ted.	lightning struck Power and phone silstones fell
	dama dama tree appl quar on a	ge ged es i le t ter	vest-non the hif his the rees work and a high him his edge	south south ted of path we ere ne cile is of pa	st line side. found ere blo ver fou nto a to	Severation do	nage alf , or on or one l pat l up	to hou arm bu blown damag arge t ch. A	ses wa Llding down. ed, an ree wa Ll cor ng fla	even farms along s mostly roof s were either Nearly all d eight dwarf s blown a n or tobacco in a northeast	Caribou to Limestone - Ft. Fairfield area	Ser in et re	ite noth.	parti es wer xceeds	oularly e felle d 60 mp	in t	ha ta	131 tin	ber se	Wind, electrical ding devastation otions. Dozens and gusts which trees were torn
	flat	on	the g	ound	OT COD	g to	ard	the so	ith.	Clouds were low	Medaweska	· An	Evening electrics coms and	1 stor 1 hors	n is be	O Lieve pastu	0 d to re.	4 have c	0 becused	Electrical the deaths of
Central Kentucky	22							4	6	Hail	St. Albans	15	6 p.	3	25	0	0	2	0	Tornado, water- spout
	of to g	ncip hail golf age	al dam stone ball in the	age war size v to hen follo	to to	acco rom p Preli untie	cor	n and ze to	garden oi geon	er of areas. crops. Reports egg to marble dicate heaviest Green, Shelby,		of Wa	water 100 terspout o	to 15 rossed on res	d and r O feet half t ching t	nigh. high. he 5-	onto With mile with	lake v h a ros lengti shore,	here : r like of th	ore of Big Indian t raised column a jet plane, se lake and do ripped tree
Knox County, Woodbine Area	29	aft	ernoon				1			Lightning	Farmington area	29	2:15 p. to 2:45p.			0	0	4	5	Wind, electrical
	kit	chen	of hi	s home		ng tw				a table in the	MARYLAND	ga:	elent thun dens, Li	derequ ghtain	allo fo g strik	lled es st	trees erted	and d	amage of	homes and fires.
LOUISIANA Tangipahos Parish										Tornado illsdale and Amite, destroyed. Nearby	Ocean City, Wordester County	18-y	ter from :	udden	thunder	stor	at	beach.	Her	Lightning while seeking companion was
Allen Parish	4 Lig	2 3 htni	:00 p. :00 p. ng nea rted f	r Oakd	hich de	0 seve	0 ral p	4 laces	0 about house,	Lightning two miles apart, a barn, a frame	Frederick and Carroll Counties	19 Stor	4:05p m roared Unionvill	but 5 ver a and i	600	only  only  mile	min 0 path ine	or inj 4 begin	ories. O uing b E to M	Tornado etween Libertytown erston. Several
Lafourche Parish	11 Lig	htni	ne str	family	ft. ou	1 tboar	1 d mot	2 or boa	0 t on I	Lightning ittle Lake, east of ushions charred;		tree Weat	s, teleph	ne li coop	es and erative	util: obse	ty p ver	oles,	also r	ny reports of down oof tops blown off rted that several
State	one	осс	upant	killed	instar	tly,	other 0	knock 5	ed und	onscious. Wind, hail, Lightning	Croom, Prince Georges County	19 Smal	7:00p	1 dippi	50 g to ti	0 he gr	und	4 severa	0 L time	Tornado
	1if	ted .h.	roofs at Mor oht is	n par troe pu	shed fr	eight Sunsh	orth) car ne B	of a mile	ate. down	lled many trees and Winds up to 56 track before work- onsidsonville).		tree	were an	apped in dr	off and iven the	power rough	i lin	es dow	ned.	foundation. Some reat roaring noise th enough force to
	win pil out	d be lar ages	nt ste had co . In	el rod re whi	d more	than ented he he	bend evy w	ch thi Ing. Inds a	ck on Many p nd had	one pillar; other ower and telephone I ripped leaves	State-wide	28	Afternoo and Evening			0	0	4	0	Thunderstorms
State	rai	nder	Many	trees	felled.	some	dame	ge to	build	Heavy rain, wind, Lightning winds and heavy ngs. Flash floods of Gymnasium about		disi meas dama wors	ldings str rupted pow suring one age indica at of the	er ser inch ted. storm	d damag vice in were re Fires co dasultion	sever porter aused es wi	ligh al c in by l th to	tning. ommuni Braddo ightni tal lo	Ligh ties. ck Hel ng at ss est	Many homes and thing strikes Hail stones ghts with little Harclay were the imated at \$10,000.
	2:1 pho dow	ne o med	, and utage: consid	ensuir The ierable	g fire	destr ution n son	oyed of h	buildi igh wi as wii	ng. I nds Ar	Sany power and tele- d heavy rains de ranging from	Washington and Harford	29	Evening			0	1	?	0	Lightning
State	25 Sca	tte	ed th	underst	torms fo	l	0 some	4 trees	and de	Lightning, wind maged some build- pine tree, stunned		tele	or injurie ephone at nty.	s to a Pinesb	girl s urg. S	ome 1	by 1 1ghtn	ing da	ng whi	le talking over eported in Harford
	In	vers	in neam filion effe	Parish t of a	rd, and light several	knock tring days	tille vith	som d som thunde	floor cows	in nearby house. The cumulated but as, wind and rain is in SW Division.	MASSACHUSETES Eastern counties	To		he tare	STARS.	. Heat	rtest	damag	resu	Rain, electrical nuck many sections ted from flooded
Plaquemines Parish	28	Al	out !:00 p		t Sulphu					Waterspout		of an	reets, cel roads and re-rout	llare	and base rpasses many car	were	also also	flood ging s	t the ed and trikes	traffic was halted were numerous with Village Church was
Jefferson Parish		11 Fui		.		S ob:	served	from	14th	Funnel clouds aloft loor New Orleans		dr 50	ragger ANG	rpess.	eg, set ves stru t of Nor t water	uck an	ni da mid.	maged A man dellar	by light Tew	heavy damage. The taing at sea, sbury was injured to was either rical shock.
MAINS: Concord	1 7	or ne	do no	ring ea	1000 strees	cut t	0 hroug	power	0 ed are lines,	Tornado a of Flatcher	Statewide	14 Bri	Afternoonief but se	vere tind de	hinders	O Tajor	2 rip stor	S ged ac u casu and ph	oross t	Wind to state causing were trees and rvices. In Marble-
Mayfield Township	1 1	olns	45 p. domon of dan	redieas	# 50 tward t xded in	hroug	h Woo	S ded an	O reason uny tare	Tornado th of Palmer Pond, es downed,		to	sd Harbor saing 45 p old, a mot	ersons her an	into ti	he wa daug	ter.	All we	ne res njured	cued. In Spring- while walking when of falling tree
Waterville	1 0	orne orle	ge to	rard Wi	ly narro	no.	wed e	as twa	tod as	Tornado vicinity of Colby d felled. Garage		mir det		ng of red in	streets	onum and	della ities			qualls caused some a. Other property and other building

JULY 1963

			PATH	¥		OF SONS		ATED†					РАТН	Ę		OF SONS		ATED†	
PLACE	DATE	TIME	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
MASSACHUSETTS (Co Duns table	18	2120 p.	l from	1200	o et to	0 ward	4 the s	8 outline	Tornado, hail t, swinging toward	MICHIGAN (Cont'd) Southwestern and Central Lower Michigan	31	5:00 p. 11:00 p.	,				5	5	Thunderstorms withigh winds, hail
•	the	south and	souti	east ne	er tr	e end	of 1	ts pat	Position of many	,								[ .	lightning and heavy rains
	COV	damaged; red more	a she then	square	mile	and	Hail embra	up te	5/4 inch dismeter of Dunstable and hit, windows		the !	libson Ref	rigera	tor Com	bany	at G	reenvi	lle. N	d down a wall of merous trees
	and	ATMOSUTES	KOM MOY	d or our	ip or	Drew	u, au	y auv	obile hoods and me major casualties		home	s in the a	rea. L	ightnin	g sti	rikes	cut p	dwer s	o homes, buildin buildings and rvice to hundred
	of of	he storm.									of h	mes. One there. Hai	inch h Istorm	ail rep damage	to (	at cherr	ewage crop	with in Ma	esser size repor on County estima
Statewide	18	lly named	thu	dersha	0	5 stte	5 ed ma	0	Electrical, rain, hail as of the state.	Cadillac and Wexford	31 31	6:40 p.	1	l.	0	0	5	c	Tornado
	The	WATE OF	ncial:	liv sever	n in	the r	or the	ast an	d in southern	County area	Torn	edo firet	aighte	d movin		twan	d acro	sa Hie	way 131 north of
	met	l fence o	n whic	ch they	were	leani	ng, L	igntni	ing in Sturbridge ing struck the ig strikes started		Cadi firs	llac by th	the St	ty Sher ate hig	iff. hway	Depa	truck tment	sign	th side of Cadi
	ten	mce shop	at Oti	is AF Be	se. I	rees	and l	arge b	ory vehicle main- anches were felled any communities.		011 lift Near	ed a panel ov Behrns	corrug truck Lumber	20 fee	t in	ena po to the	air air	e oi un Mhich Barn G	nop where it to roof and then as demolished, ass Company sho
	Hal	atones up	to 2	inches	diame	ter 1	n Wor	cester	Middlesex and		room demo	were dest	royed. a hou	Two ot se trai	er i	uild	ngs i vertu	the ned.	djacent area wer he tornado then ng down momentar
	aut		ods. I	ocally	heavy				ashouts and		trav then	lled and would rec	skippe ede in	d along to the	sout	is aga	tward in. T	touch	ng down momentar igan State Police estimated 20 to
Westfield	21	5 p.	500 <del>**</del>	75	0			0	Tornado		mile	per hour	Bouth	eastwa	rd az	դե եհա	n fin	ally d	sappeared into t
	rip		etrip	of tobe					to ground and 550 ft, without	Marion	18 a 31	8:06 p.	Les so	utheast	of (	ad11	lac.		Funnel aloft
Bradford	24	Sing mia	CODAC	<b>~</b>	0	0	0	0	Dost devil		Funi	el aloft	bserv	d 1 mi	le so	uthea	st of	Marion	1 .
		lwind of bradford (			and	inter	sity	observ	d on golf course	Clare	Funi	8:43 p. el aloft	bserv	d.		İ			Funnel aloft
Essex County	29 Sta	Afternoon	d exta	eme nom	0 theas	5 t. nor	4 tion	Of con	Electrical ty from Amesbury	MINNESOTA Polk County	16		6	*1				ļt.	наіі
	to 1	iewburypor und when 1	t and ightn:	Plum Is ing ripp	land,	Thre	e men	were tage	injured at Plum on which they were	Southeastern Minnesota	١.	damaged :	rops	in a th	ree t	ownsn	up are	5	Heavy rain, hai
	¥os	damaging	fire	occurre	d in	Ames	ury w		umber of fires. large barn with	Olmsted, Wabasha, Winona Counties	, 40	11:45 p					-		wind, flood, funnel clouds
MICHIGAN	1	5:45 p.		rheeur	wag c	6814	yeu.		Electrical		Hai.	, up to 1	inch	es in d	iamet	ar, a	comp	nied b	aloft y strong winds
St Joseph County	Light and t	ning indu	ced fi	re dest amage t	royed all	larg cont	e barı ents	n, mill in Meno	house, grainary, on township.		Heat	v rainfall	up '	to 6 in	thes	in pl	aces,	over t	e county area. he Whitewater sed on Weather
Benton Harbor	ll Oust	Noon devil lif	ted ro	of off	pick]	a ola	3 nt she	ed.	Pust Devil		the	Whitewater	: Stat	e Park	there	py av	erting	g a pos	sed on Weather danger areas in sible disaster.
Jackson	17	Afternoo	n		ì		3		High winds		clo	ds aloft :	poving	from s	<b>buth</b> w	maged rest t	by fi	bod wa heast	ters. Two funne observed at
		rom Dexter pick up							ee on his moving kson.	Southwestern Minnesota		Charles, 1	IIIOIIA	comtra.	1		5	5	Hail, wind and
Kalamazoo County	17.	Early morning					4		Electrical	Yellow Medicine, Lincoln, Lyon			inche	in di	me te	n) acq	pmpan:		heavy rain
	Light heavy	ning caus	ed sev	eral fi Kalamaz	res w	ith 2 ea an	homes d one	and o	ontents suffering nd contents heavily power service to	Redwood, Brown, Pipe- stone, Murray, Cotton- wood, Nobles and	70 r Manj	ph flatter barns and	ned an Loutb 15.000	ilding	ed cr s dan	ops : aged,	trees	uproc	winds clocked at hese counties. ted and power li sveral hundred
	250 h	ed at Gal	esburg nghout	the ar	ning ea.	strik	es dia	rupted	power service to	Jackson Counties	yard	s. Window	8,81	gns and	TV a	ntem	as bro	ken or	damaged. Rains
Central Upper Penin- sula and all of Lower	19	5:00 p., 11:00 p.					.5	C.	Thunderstorms with high winds, heavy	Dafur 3E,	16	7:10 p	6	*1		07.0	5	ned her	Tornado ns, silos, out-
Michigan		winds est:							rains and lightning ad heavy damage.	Watonwan County	bui]	ding≎and t	na ch in	ery on a	even	fara	ψ. Nι	merous	animals were
	ings	and cars	due to	flying	debr:	18, 1	imbs,	and fa	ge to homes, build- lling trees. Numer- urned due to high		twis	ted off.							
	vinds down	plus man at Iron R	plat ver w	glass th hea	winda y dan	ows b	roken. report	Huge ad. No	circus tent blown merous buildings	Southwestern Minnesota	18	2:30 p					5	6	Hail, wind, hea rain, funnel cl aloft
	inga	and homes	Ligh	ining i	duce	d fir	es dan	aged r	ted to roofs, build	1	Hail dama	up to 32	inche	s in di	me te	bat cock	tered in so	propa,	broke windows, locations in th
	area	due to li	htnin	g strik	s. H	avy	rains	floode	undreds homes in the d roads, streets, stern lower and		15 c	ounties so	nuth o	the M	innes the h	eta I	dded 1	and wes	t of Mankato. damage. Storm
	centr	al upper 1	lichig	an area	s suf	ered	the	heavi	est.damage.		pata	olman nea	Lake	Crysta	1. H	prdes	# hit	prea t	ved by a highway y hail was that e to Tyler to
Port Sheldon	19 Count	8:30 p. y <sup>S</sup> heriff		ved 6 f	oot s	iche	on L	ke Mic	Seiche higan.		Slay	ton then i	orthw of fere	stward d hail	to H	uthto	n to 1	ake Be	nton. Village of th sides of most
rass Lake		Afternoon y of 6 on		nic str	2 ick by	4 11g	ntning	war.en	Electrical they sought refuge	•	buil sla	dings and ghtered.	homes	Inju	red c	attle	Ivani	be are	a had to be
	under nearb	a tree fr y hospital	om a shor	thunder tly aft	storm.	Mot m in	ner ar juries	d your Rema	g daughter died in ining & family	Martin, Faribault, Freeborn and Mower	18	5:00P					5	5	Wind, heavy ra
	pital	•		ror in	urie:	and		LeTes	sed from the hos-	Counties	Two.	ve-hour r	ainfal	Loft	o 5	incl	es ca	sed ti	aloft e Blue Earth Riv
		modern f	arm ba						High winds Herd of 30 head of		of o	ropland.	Heavi	est rai	nfall	5.30	inch ts of	s at I	d flood many acr lue Earth. Wind rn and Mower
		e killed and dolla		ne barn	col1	apaed	. Dam	age es	imated at 35		Cou	ties with For 45	great dmute	est dam s rapid	age o	ccur:	ing a	Alber s down	t Lea starting a ed scores of tre
Calhoun, Cakland, Macomb and Wayne	22	3100 p. 8:00 p.	,			1	l <sub>4</sub>		Electrical, high winds, and heavy		and bui	smashed w dings and	indows utili	. Cons: ty line	iders 8. W	ind o	oss di amage	e to t	rees falling on eported at Austi
Counties	Wола:	in St Cl	air Sh	pres st	ruck	by 11	ghtni:	g whi	rains e closing window		Har	el olouds land, Gle , Mower C	wille	and Oal	eport kland	ed ne	ar Own	County	Steele County; and near Maple-
	seve	e damage	to app	roximat	ely l	O hon	es an	d buil	iced fires caused lings in the area. e Battle Creek	Canby, Yellow	26	6130 p-		. '		2	5	ls.	Heavy rain
	area								a few homes and	Medicine County		12:00 p	ine, 5	inches	in 2	-nou	peri	d from	8-10 p, fall at

See reference notes at end of table.

			PATH	¥.	NO. PERS		ESTIMA DAMA		CHARACTER				РАТН	¥.	NO. PERS		ESTIMA DANA		CHARACTER
PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
MINNESOTA (Cont'd)	Canhy	resultin	e in 6	lamage	a ham	es. I	nua i ne	ss est	ablishments, roads,	MONTANA (Cont'd)	В	evening	20	*10	٥	۰		5	Hai I
i.	fall	5.23 inch	es. ()	ne fare	er lþ	st X	5 min	k valu	ablishments, roads, Total Canby rain- ed at \$17,000 by	Eastern Teton		-					•		Inches in
		ing. Two ridge app			ed w	en tr	eir c	ar dro	pped into a washed		olama	ter.					Ì		
t. Cloud, Stearns	29 A dus	p t devil r	ri cked	ma 6	vear	old t	ov an	d depo	Dust devil	Dillon, Beaverhead County	9	3:02 p.	30	#5	0	0	5		Thunderstorm, hig wind, hail, rain
	away		. Gar	bage ca	ns a	ıd ot∤	er lo	ose it	ems were tossed		dama	e to crop	s outs	ide of	Dilld	n. †	lai Isto	nes up	rty and heavy to the size of
		8:30 p caused se		d mon	4		. the	J4	Hail	Fairfield, Teton	baset 10	alis were	repor	ted. W	inds	were	up to	65 mpt	Funnel Cloud
MISSISSIPPI	Dell	Caused Se	20001	աասի	Canag		- VIII	36 W.L	109 22 023	County			was s	lghted	west	of to	wn.	t was	in sight from
Forrest County,	1	After- noon			0	0	3	0	Thunderstorm	5	1 1			M., but	it d	id no	t touc		nd. Thunderstorm, rai
Airport	Wind	over 80 m	.p.h.	(for pe	rhaps	2 12	nutes	), sna	oped moorings of	Eastern Garfleid, Southern Valley and Southwest Rooseveit	10	Afternoon			١	,	٠		hail
	crash	ing. Som	; seve	ige to b	ui ldi	ngs.	E8 11	ew up.	o 200 yards before	Countles	to W	olf Point	and Po	plar, R	005ev	elt (	ounty.	Heav	rfleld County, lest damage was
eshington County	5 Man k	illed by	lighte	ing, tw	l o ott	0 ers	0 haken	up bu	Lightning not badly in-		lup to	2 inches	in di	ameter	near	Pop I a	r and	Wolff	ilstones were
	jured	, while ch	opping	cottor	in f	ield	near	len A	llan, Heavy rain		over	5 inches	of rai	n near	Popia	r. t	ligh wi	nds ne	cial reports of ear Jordan forced eas \$10,000 damage
Hinds and Madison Counties	8	atronta (	looder	in Car	ton	nd J	ckson	The	3.39 inches in		to bi	ıildingsi	n Nash	ua. from	heav	уга	n.		
ŀ	Canto	n was the	heavi	lest one	-day	rain	since	April	12, 1962, and its al reports of over	Eastern Judith Basin and Fergus Counties	15	Afternoor	1		o	0	0	4	Haj i
		hes in a	ea.					?	Heavy rain		Scat	rered hail stones wer	throu	ghout t	he ar	ea ci	used :	ome cr	op damage. Large
	13- 17	ared thur	derst	rms ord	duce	lloc	U Lllv h	, PAVV F	ain. Some craeks	Southeastern Carter		Evening	150	#5	0	0	3	. 4	Hali
	overi place	lowed, fi	ooding -hour	acres precipi	of cr	opla n wa	ids; s near	treets	flooded. In some hes, with un-	County		hailstone	esup f	o an in	ch in	dias	eter.		
	offic	ial repor	ts 48	much as	10 :	nche 0	;. ?	?	Wind, hail,	Wibaux (near), Wibaux County	18	4:00 p.	50	*2	0	0	4	5	Hail .
to Coastal Division	22 Thun	p.m. leratorm.	gusty	winds.	occar	ions	l heav	y hail	lightning and severe light-	County	Hai I:	stones up	to one	inch i					
·	ning	noved act	oss a	fea. M	any pe	wer ilst	ind te oπes,	lephon up to	nearly 3/4 inch in	Great Falis, Cascade County	24	3:35 p.	<u>,</u>	30	0	0	0 5-11-	0	Tornado
	dame	eter in Ru ged house epower mo	, tra:	lers,	and de	COMM	ission	ed a l	3 pm. Lightning ,000 pound, 50-		Ligh	rain and d calm.	1/2	ne City 0 3/4 i	nch t	arear hail I	fell ji	ist ah	me damage to tree and of tornado in
MISSOURI	nors	epower mo	or in	the ci	y 01	Бау	,			Northeastern Montana	1	Afternoor and	,		0	٥	4	5	Thunderstorms, hail, rain
Boonville		mid-					4		Thunderstorm		1	Evening							
Cooper County		afternoor damage t	Ì	. hom	an an		ni ve-	n_the	tra										ughout the area. County at 1:30 P. n about 12 hours.
Southern Cooper		afternoor		, no			4		Thunderstorm		Ther	was cons	measur siderat	le rain	and	wind	damag	to p	operty.
County	1	& evening	1							McCone, Dawson and Fallon Counties	30	Evening			0	0	0	5	Thunder and hall
		h floodir peed.	g on t	the Peti	Lte Sa	line	river	in an	near the town			,	<u> </u>			].,		in th	atorms three counties.
Princeton Mercer County		4:30-5:15 pm					l <sub>1</sub>		Thunderstorm		Heav	est dama	ge was	report	and t	ound	Erockw	y.	1111 60 0001111001
•	Mos	extensi	e dama	ge to j	phone	and p	ower.	lines	"in years".	NEBRASKA Near Elgin	12	10:00 p.	10	l <sub>i*</sub>	0	0	3	4	Hail
Southern Calloway County		early morning							Funnel Aloft		Hai]	stones up les west-	to 1	in di	amete	in	an are	from	1
MONTANA							}				east	-southeas	of E	gin.	T 8				
Floweree (about 15 miles west) Chouteau	3	6:45 p.			0	0	. 0	0	Tornado	Boyd & Holt Counties	1	6:00 p.		3*	0	0	<u> </u>	5	Hail
County	touc	hed groun	d brie	ted to	the w	est. were	Photo severe	graph:	indicate that it terstorms and high		bir	up to 2' was acco and heav	mpanie	d by co	nside	rable	wind.	. Some	3
North-Central	WI NO.	s in the evening		¥50		٥	4	5	Thunderstorms,		Cou								
Montana		through							wind, hall	Dawes & Sheridan Counties		1:00 a.	20	8*	. 0		6_	5	Hail
	The	storms co	vered	an area	from	East	rn Te	eton, i	astern Pondera, , and Valley			up to 3,		mecer (	estr	, ea	upst v	og d va t	
	Coun	ties. Th	dy wer	e first	repo	rted	early	eveni	ng and lasted until	South-central Nebrask		1	1	30*	0	1	4	6	Hail
	very	light of	were	The st	drms	were afte	rather	spot	ted. Thunderstorms, 4th in Valley		Cus	l up to 2º ter, Sher ster Coun	men, Bu	uffalo,	Hall,	, Kea	rney,	Adems -	and rth
North-Central		Western R Afternoom	1	#100	ities.		4	5	Thunderstorms,		of :	ster Coun Blue Hill els.	, near	Alda,	Sarge	nt, W	ood Ri	ver an	
Montana .	"	and Evening	1	-100	1		•		high wind, hail, heavy rain	Buffalo County		7:30 p.	1	Narros	. 0	0	3	o	Tornado
	Seve	re thunde	rstorm	s, heav	y rai	ŋ, hi	gh wit	nd, an	d hail were re-		Los	ses resul	ted who	the	torna	do we	nt thr	ough f	
	Roos	ed in a r	umber inty du	of sect	ions ie aft	ernoc	n and	eveni	y eastward to ng. Unofficial			etwater.		1	1.				
. •	area	s. At Hi	risdale Kleen	Valle Hails	y Cou	the	it wa	s∣esti of wal	n fell in some mated that wind nuts fell near	Southeast Nebraska	16	1		50	- i	1	4	5	Wind & Hail
	Conc	ad. Ponde	rla Cou	inty. I	leavy	rains	8 mi	198 68	st of Dodson, ad bed on the	11	Hig	h winds c	aused .	de. B	eq ut:	111ty ne da	IINes	q amag	<b>"</b>
	Phil	ips Cour	ity, w	shed ou	and	sof	ened	the ro	ad bed on the passing freight rensients were all damage reported ge due to rain.	11		orted in	Chart	n and n	reft	n] u	ail un	to 2"	

											,		,						JULY 1963
			. РАТН	, тт.	NO. PER	OF SONS	ESTIM		CHARACTER				PATH	¥.		ÓF SONS		ATED <sup>†</sup>	CHARACTER
PLACE	DATE	TIME	L'ENGTH OF (MILES)	WIDTH OF PAT	KILLED	INJURED	PROPERTY	CROPS	OF STORM	PLACE	DATE	TIME	LENGTH OF (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	OF STORM
NEBRASKA (Cont'd) Northeast Nebraska	i		100	30*	٥	0	4	2	Wind & Lightning		11 Roof		hay be	ira, two				ged, c	Tornado, wind otton trailer
5 North of Palmer	Madi sout	tered wind son Counti nwest of I 10:00 p.	es. l ierce	lightnir	g kil	led :	O cat	le O.	Lightning		ene and	mile north house trai	of Re	gers. rned ar	Roof	twist	ed of:	smal] th of	1
•		tning deat	h occi	rred w	ile	ricti	Was (	penin	<b>8</b>		Two leve Wind	homes on o led. Roof towards a	of 4 outh;	s sides room ci and the	in tow	ards.	north.	5 mil lown 1 Roof	Tornado, wind es north Tucumcari 00 yards north. blown off barn,
11 E of Niobrara	1 1	9:00 p.	Spot ints de	stroye	O by 1	0 ire.	4	0	Lightning	Jal, Lea County	aeve 12	al hundre	i Îcot	3 mile	s nor	ta Tu 3	cumcar	i.	d scatterd Lightning
Hayes & Hitchcock Counties	Hail	6 - 8 p. up to 2"	15 diamen	l# ter from	О	O Rup	ert to	aroun	Hail d	Artesis, Eddy County	2 fe 12	3:00 p.m.	nky and	stunni	ng a	third 1	boy.		ng down two boys Lighted ng
Dundy County	29	3:00 p.	12 prope	2*	0 cros	o s in	4 Benke	l, men	Hail ·	Roosevelt and Lea	rese	ived burns 4:00 p.m.	on he	od, str ad and	ick b	y 11g 2	htmin °6		chopping cotton
Eastern Sandhills	vici	9 - 10 p.		50*	0	0	lı:	. Гг	Wind	Counties	in K	enna, 35 π	dles s	puthwes	t of	Porte	les, a	ind and	t door of his home ther bolt felled
Southeastern Nebraska	dama	ty lines, ged. Newl	y-cut	ings, a	nd ha dest	ysta: roye: 0	ks we:		Hail, Wind, &		tele Wind nort	phone pole in Milne hwest of T	s down sand-B	ed, and luit ar Lea Cou	outb ea. 1	nildi 23-fo blown	ngs ar ot oil over	d gara derri at 5:3	lown over, ge damaged by ok, about 16 miles O p.m. by wind
	arou wide to 0	winds cau nd Alexand ly scatter toe County al clouds	ria ar ed dan and a	d Glade age fro outhwar	tone. m eas d to	Ha: tern Jeff:	l caus York ( erson (	ed ounty ounty	Funnel Clouds		wind brok trai empt	s moved so tree lim lers, and y oil tank	nthwar bs, kn laid o was s	d and a poked o wer som truck b	Lov ut wi cor	ingto ndows n. E ntnir	n top: , dams etweez g at 6	led te ged ro Lovin	i injuring one man devision antennae, ofs, overturned gton and Hobbs, an m.; igniting p.h. struck Hobbs s, sheds, and
Near Daykin	31	5:45 a. struck by	-	ning whi	le wa	0 lking	0 in p		Lightning	new York	shif	ting some	traile	r homes	off	their	found	ations	, broke windows ndreds of thousand
nevada new hampshire			None	repo:	ted				· .	Statewide	2	Afternoon & early evening			1		6		Thunderstorms, high winds, hail, heavy rain
Concord to Derry	Mer	rential real real real real real real real re	in fe eg str ported	eets an	ore i	0 than ment	alfa a. A	n hour number	Rain in parts of this of road washouts		Seve to 1 heav	re thunds: ocally his y short de	rstorm gh winc ownpow	in mar s, seve	y sec re li in,	tion ghtn Stori	resu ing, s ns ver	ted in me are unus	evere heat wave, the heavy damage due less of hall and hally severe in len, Wyoming,
West Plymouth	Movi 35 t	ng from s all pins	k sodd outh t wees	enly an o north and den	it:	obse ippe she	d, spl	y seve it and a rais	Tornado, waterspout ral witnesses. downed about ed a waterspout it disappeared.		uppe and torn	r Rudson telephone	service with	tgomer; region, es. M resulte	, Ore from my 1: nt de	nge, es w ghtn:	Chaut ere bl ing-ca	auqua owo dos used f:	ounties and the m disrupting power ires and some near es. One man was
Durhan	Stor	he city.	Hails	tones w	ére d	resi	bed "a	a big	Hail, wind business sections as ice-cubes."	Ashville, Chautauqua County	Smal	d touching	moved						Tornado sirling funcel rain, Blew down
North Charlestown	pitt	ed and de reined,	ere b	Trees	and bo	ench o	ile wi es wer	ndehle e down	lds and hoods were ed. Some gardens	1.	FRRA	buildings	and 1	rees.	Od he		en en		under July 2nd
THE ST. CHIEF TRAVEN	Head of t In c	ing north own, fell ne case.	estwa ing tr the st ceet	rd, sto es, wi ern tor eway.	n to	e a nd ou roof	path t thuild off a	hrough ings a barn	the southern and nd lifting roofs, and deposited it ad on Unity Road	Syracuse area	Viol a li	ghtning at	rike.	Many o	ther	11gh1	ning :	trike	Thunderstorn water skier by to homes and
Wolfeboro	18 Torr	8:55 a, ado tore	500mm	200 n a boy	ca deine	bost	s and	cances	Tornado uprooting trees, around, Major	Scattered areas of the State	wind	demage, After- noon	Met. or	t to ac	1	1	4		d hospital. Some Thunderstorms, high winds
Lake Ossipee	21	Afternoon	d min	pout, r	o o o o o o	O ng hi	Clying O gh int	debr: 0 e the	which nearly sir paths. Two s. Waterspout air and moving at		seve At I from dame dame	re lightni thèca a ma his car i ge quite a ge from hi	ng and in was inreate overe gh wir	high we slectro med by in this distant	inds suted a fal area beavy	and to by ing	rief l allen tree, e Mond	esvy t vires Wind icello	Monticello, with orrents of rain, when he jumped and lightning area suffered , silo and trees
NEW JERSEY Permaauken, Camden Co	Two	physicians	WOLG	cilled	2 when	0 struc	k by 1	ightni	Electrical ng while	New York City area, Buffalo area	29	blown ove	,	_	2	19	6	al and	Thunderstorms, wind, heavy rain
Coesn Gate, Ocean Co.	play 29 One 1	ing golf s Late Aftn bov was ki	t a so	natry o	lub. 1	l niure	d when	struc	Electrical		inju seve Torr	red by faire. At Br mential rat	ling offalo ofall	a sever	s and the the	nder h 3.	etora 37 inc	ere the termina tes in	and two people arty, 16 were wind damage was ated a heat wave. the official gage.
Allentown, Monmouth Co	.29 A fa The :	5:39 p.m. mer drivi armer's s	ng a ton req	ractor sived s owbar s	1 was k	l illed al ir	when jury s	struol	Electrical by lightning. lightning bolt haywagon being		Ther coll ing a de Near wore of	p was wide apsed. With street, pth of 5 : state of t storm in usiness.	despread and in the control of the c	ad cellighways more. ncy extens out	ing, lar f. , who Many sted sing	car for a	tounda ng occ ater = a were sany h oth tr	rred. pooled flood ours. affic	reakened and some Extensive flood- in low areas to d and damaged. Reported to be the jams and disruption ttempting to unplus
NEW MEXICO Gallup, McKinley County	11gh	Noon tming stru	ok nes	r bullo	ipzer	2 opera	ting o	n goli	Lightning course construct		a la due	mp in a f. to rain-se	aked a	oasemen ind veal	ened	earti	pas i	ujured	by a falling wall

1			PATH	Ŧ		OF		ATED <sup>†</sup> AGE					РАТН	Ę	NO. PERS		ESTIMA DAM		
PLACE .	DATE	TIME	LENGTH OF P (MILES)	WIDTH OF PATH (YARDS)	KILLED	NURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF P (MILES)	WIDTH OF PATH (YARDS)	KILLED	INURED	PROPERTY	CROPS	CHARACTER OF STORM
NORTH CAROLINA Lertford, New Hanover, Cender, Stokes, Surry, Nake Counties	į	Aftn & evag			0	0	4	5	Electrical, Hail,	NORTH CAROLINA (C	26	i) 3:30 per acco damas	[	Leven	0	0	0		Hail
	Bev	tning set eral trees aged crops	blown	down o	и роз	er 11	ngs at	d bus d bui	ness buildings. dings. Hail	Bladen, Brumswick, Cumberland, Duplin,	27	aftn			0	0	5		Electrical, Hail Wind
Catawba, Durham, Franklin, Hertford, Madison, New Hanover,	2	Aftn		,	See rem	arka	4	5	Electrical, Hail, Rain, Wind	Edgecombe, Pranklin, Lenoir, Pender, Pitt, Stokes, Wake, Warren Counties	sca	espread de tered ins	tances						hail, with
Person, Pitt, Vance, Vake, Wayne Counties	pow		ephone	servic	e di	rupte	d. F	lash f	se burned down, loods in several	Brunswick, Buncombe, Caswell, Cumberland,		aftn & evng			1	.1	6	.6	Rlectrical, Hail Rain, Wind
	"ma		n set						trestle which	Dayidson, Davie, Duplin, Edgecombe, Forsyth, Franklin, Graham, Harnett,	the	State. Par line, d	en ele roppin	ctrocut g live	ed at wire	Lex:	ngton s bes	when 1	ered throughout ightning struck an injured by
Bladen, Moore, Wake Counties	8	Aftn &			0	0	. 4	0	Electrical	Iredell, Johnston, Montgomery, Moore, Rash, Morthampton, Pender, Randolph,	win sto	i gusts to	60 mi	les per	hour enent	rece	rded.	Flasi reas.	AS, Wilmington; floods overtax Widespread
		barn with or fires w						burne	d down and several	Rowan, Sampson, Stokes, Surry, Wake, Warren, Wilson, Yadkin Counties									
Carteret County	Hea	3-5 pm vy rain ca y, with da	used i	flooding	of of	0 drain	4 ige fa	eiliti	Rain es in Morehead	Forsyth, Guilford, Pender, Rockingham Counties	29	1-3 pm			0	0	4		Electrical, Hai
Surry County		7:10 pm	mage .	D Merci	0	o	0	1.	Hail	Hyde County		ntning. I		maged t					
Alamance, Caswell,		to two so	uare r	niles d	emage:	d, 1200 0	tly, t		in fields. Electrical, Hail			nel moved Lity poles							f several
Cleveland, Vance, Warren, Yadkin Coumties	ทเหม	erous area	s, wit						aged by hail in in Warren and	Harnett, Pitt, Wake Counties	31 Fou	3-4 pm	injur	d by li	0 ghtní	4 ng vi	3 ile r	ding	Electrical, Rai
Pasquotank County	Van 14	ce Countie 4 pm	1/2	30	0	0	5	0	Tornado	NORTH DAKOTA	har fac	vester in lities, No repo	and he	vy rain	floo	ded	fields	and s	torm sewers.
	Bri dam	k home de	polish five	ed, sev miles	orth	other	buile	ings ·	es per hour, destroyed or City. Funnel	CHIO  Worth Ridgeville	1			Narrow		0	3	0	Tornado
Pitt County	15	aftn			0	0	0	4	Hail	MOTTH KINGEVILLE	*	A small, Woodlawn	short- Stree	lived for	mnel Ing h	clou alf o	d dipp	ed to	roof level on of, and scatter; ported seeing th
Besufort, Columbus, Craven, Robeson, Wayne, Wilson Counties	16	4-6 pm			0	0.	4		Electrical, Hail, Rain, Wind	Columbus	2	fumnel r							
	Sev	eral areas ps by high Coldsboro,	winds	, flast	floc	ods an	d hai	, caus 1. St	ing demage to orm sewers flooded			by light:	ning a	ad kille	pd. 1	Øwo c	ompani	ons es	r a tree was str caped serious crashed outo a
Columbus, Onslow Counties	17 \$1x	5-7 pm square mi	les da	emaged,	0 most	0 ly tob	0 acco	5 in fle	Hail lds.			garage c mother.	rushin	g a smal	l) boj	ins	de an	d seve	rely injuring hi
Onslow County	18 Tob	2 pm.	orn da	maged o	0 over	0 a thre	e squ	4 ere mi	Hail le area.			afternoo northeas	n from t.	other 1	parts				reported this pecially in the
Robeson County	19 Ste	6 pm	Short	1.	0 brol	0 ken of	4 f, by	0 small	Small tornado	Dayton '	19	10:47 AM A small	funnel	cloud o	Lope	0 to	arth	0 noment	Tornado arily tearing or ion on Main Stre
Cleveland, Hertford,	obs	erved near y. Moved	Lumbe	erton.	Small	1 buil	dings	unroo	fed, one carried			and scat	tering	content	ts of	the	statio	d. A	ned to this one
Stanly Counties		4-6 pm er disrupt		everal i	0 fires	0 start	4 ed in	.0 scatt	Electrical ered localities	OKLAHOMA Lawton 5E, Comanche County	10	3:00p 4:00p.			0	0	3	0	Rain and wind
Cherokee, Haywood Counties	20	lightning.			0	0	4	0	Electrical, Wind		mea mat	surement o	3.1 OD MPH	inches accompa	in th	the	cal are storm	ea. S for a :	ed an official traight winds es few minutes and
Greene, Harnett, Onslow, Pasquotank,	hou 22	me partial	er lin	nes blown	en st:	reck t	sever y lig 4	al sma htning 5	li areas. One Electrical, Hail	Waurika, Jefferson	pho 10	dlished a ne poles, 4:45p.	end de	block maged a	barn 0	and 0	steel	grana:	d down nine tel
Rockingham, Rowan, Stanly, Surry, Vance, Wayne, Yadkin Counties	) Se		dings	hit, on					ing under tree.	County	pow	er poles o	causing	extens	ive 1	Line (	damage	and p	cking down five
Anson, Carteret, Caswell, Columbus, Cumberland, Davidson,	23	3-5 pm		mother	1 to tur		4 en 16	6	Electrical, Hail		bar hea hea	n and dair vily damag vily damag	ry shed god wit	were the fairgr	10wn ounds 50 in	cown bul	while laing	two	sly damaged. A other barns were ive-in were also sing filed for
Duplin, Forsyth, Guilford, Henderson, Hoke, Iredell, Jones, Pender, Richmond, Rockingham, Ruther- ford, Yadkin,	El Ha to	thesline.	Seve great rop in	ral fir demage meny s	res da to fr tress	maged ruit c scatt	home: rop it	s and a Hend over the	ther buildings, erson County and to State. Reaviest	Blaine, Kingfisher, Major, Garfield, Gran Noble, and Kay Counties	10- 11	10th- 10:00a., 11th	100	*30	0	0	5	4	Rain, wind, a
Brunswick Counties Forsyth, Gaston, Hontgomery, Moore,	25	4-8 pm	}		0	0	.4	5	Electrical, Hail, Wind, Rain	1	thr New	d of rain cugh Enid kirk. Ra	from ; Faire	just eas mont, De totals	or Cr	Okee reak, ed fr	ne and Red R on 3.5	exten ock, a o to 7	a produced a hea ding northeast nd Blackwell to .50 inches, whil
Wayne Counties	Se	veral scat d flash fi	pered	Crops	nir Semes	nor da	mage :	from 1	ightning, wind by hail.	71 -	hig	h winds a	nd вот	large	Na il	also	pelte	d area	Heavy damage thads in a 8- by

		PATH	<sub>=</sub>		OF SONS	ESTIM.						Ę	ı		OF SONS	ESTIM	ATED†	
PLACE ·	DATE	LENGTH OF PA	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
OKLAHOMA (Cont'd)	<u> </u>	<del>-                                    </del>	 	<u> </u>				 	OKLAHOMA (Cont'd)	L— I			 		]		 	
								y buildings, barns, or damaged, along		wes:	-southwes	t of E	ar and	demol	ishi: of a	g a ge	rage s Two w	nd heavily indmills were als
								One farmer also ouses were flash										ornado number 2 Beaver where a
ľ	flooded by	rains uz	officia	lly m	easur	ed as	6 inch	es. Torrential		ste	l machine	barn	was dem	olish	ed.	Five o	ther f	armsteads in the
i	with flash :	(looding	submer	king :	10 ca	rs in	a low	the morning hours parking lot of a		mil:	s, granar	ies, a	nd outb	pildi	ngs.	Numer	ous tr	, demolished wind ees were uprooted
	families we:	re evacu	nated wh	ile b	cked	up se	wers f	rpass. Twelve looded 120 base-		and dam	highlines ge 25 per	were cent o	downed f total	betwe and	en Fo	rgan a 75 per	nd Tur cent.	pin. Tornado
								e city and demol- hers were blown	Alex 5WSW, Grady	25	4:45p	2	*1	0	0	4	3	Hail, wind, and
	unharmed fr	om their	founda	tions	La	rge ha	il rep	ortedly fell on ost 300 glass	County		5:45p.						-	rain
1	panes, and s	everal l	nomes ha	ı <b>d</b> pai	ht ba	dly ch	∄pped.	Other heavy.										across area as
	Blackwell.	Damage	of wind	1 65 p	ercen	t of \$	215,60	d 7.46 inches at O total, rain 30		exte	naive cot	ton an	d crop	damag	e. E	igh wi	nda da	reas and caused maged the roof
	perdent, an	d hail :	percen	t.						of a	ne home a we days.	nd sev Hard	eral ba rains w	rns, ere u	and on	aused ciall;	teleph measu	one outages up red up to five ed 50 percent of
Tipton 5NE, Tillman County	10 After 9:00p.			0	0	7	?	Rain, wind, and		inc)	es from t	ne sto	rm. Wi	d an	d ha:	l each	total	ed 50 percent of
· 1	1 '	with un	ericial		n+. 11		Hura in	ches provided by	Central Payne County	27	5:00a			١	0	,	2.	Rain
	local storm	. High	vinds u	proof	ed sh	eds an	d buil	nings on at least	Central rayle County	-	2:30p.			"	ľ			MAIN
	five farms		company1	ing ha	ll da	maging	crops	•		Heav	y rains fo	ell ov	er area	sout	h and	east	of Sti	llwater with un-
	10- 11:00p.	, 55	*15	0	0	?	?	Rain		offi	cial meas	ıremen	ts of 5	to 8	inch	es rep	orted.	Heaviest amount s washed out by
Coal Counties	5:00p.	,								fla	h floodin	3•			~ `			<b></b>
	l								Tulsa, Tulsa County	27	9:15a	10	*10	0	0	5	0	Heavy rain and
	renging fro	m 4.03	inches n	e nea mear P	arc	to 6.	51 inc	ons with amounts hes at Okemah.			2:15p.						l	electrical
	11 8:15p.	- 3	*2	0	0	4	5	Hail, rain, wind,		Tula	a Weather	Burea	ı Airpo	rt St	ation	for r	ew 24-	7.54 inches at hour precipitatio
County	8:45p.							and funnel aloft		City	rd. The	sudden inoffi	downpo	ur wa ount	s cor	fined 05 inc	to the	northern part of corded at the
	Hail rangin	g rom ;	1/2 to 1	1-3/8	inche	s in d	iamete	r covered up to more than six		Went	her Burea	ı Rive	r Forec	ast C	enter	. Tul	sa Cit	y gages averaged ity with the
ł	farms. Ove	r 1.00 ā	eres of	cotto	n and	30 ac	res of	watermelons were accompanied hail		gre	atest tota	1 of 9	.10 inc	nes r	ece1	ed at	their	downtown gage.
	Ann amah han	five h	mee and	doat	romed.	four	chicke	houses. In to		dam	age along	with 8	20,000	damag	e to	elect:	ic li	esulted in \$20,00 es and 50 trans- r 500 telephone
1	fundel alor	t was s	in measu ighted f	red u for a	hoffi few m	cially inutes	after as it	storm. One moved east-north-		out	ages. Fla	sh flo	iodine o	overe	id nu	erous	lautomo	biles trapped at
	east at 8:2	5 PM.								int	rsections inundate	and u	nderpas he area	ses, runr	while	sever	al hor	es and businesses to about the f over 200 people
Texas County	12 4:00p. 7:30p.	-	ĺ	0	0	4	4	Rain, wind, and		460	block no	rth.	This re	sulte Peori	d in	evacu	tion o	f over 200 people wk Blvd. Street
				/ ina			nont nd			dam	ge totali	ng \$20	,000 wa	s due	to 1	ashed	out as	phalt and one
	County as t	he stor	n moved	east-	south	east.	Heavi	over most of the est total of 3.64			ent.	ge by	rain ou	perc	ent	) tote	II, and	electrical 40
	ments flood	ed whi	le unoff	icial.	amou	nts of	near	filled and base- 4-1/2 inches were	South-Central Texas	27	6:30p	20	*10	0	٥	4	4	Electrical and
	reported to Department	northwe reported	est of t	he Ci dama	ty. ge to	Panhan washe	dle A	& M Agronomy experimental plots.	County		9:30p.							hail
	Strong gust	y winds	were es	stimat	ed at	65 to	85 MF	H and demolished a amaging two hangar		Seve	re hailst	orm mo	ved nor Goodwel	theas	tware	from	10 mil	es southwest of h size beat a
	roofs and a	irplane	s at the	nuni	cipal	airpo	rt. W	ind damage at ed instances of		few	crops int	o the	ground	where	it	eached	a der	th of 4 inches in aused three grass
	severe dama	ge to b	arns and	stor	age t	ins.	Hail u	p to 7/8-inch size		fir	s. It al	so des	troyed	a bar	n and	its	ontent	s which included
	wide path f	rom 10.:	miles	rest-	north	west o	f Good	1/2- to 1-1/2-mile well to 1.5 miles			uck loade	d with	l	1				
	percent dam	ast. A age, an	bbut 200 d 600 ac	D acr	es of f cor	grain n in t	sorgi assel	um received 25 stage was damaged	Cashion, Kingfisher County	28	2:30p 2:45p.	\$	400	0	0	4	0	Tornado
	40 percent. 20 percent,	Pamage	from r	rain 2	O per	cent c	f \$44,	stage was damaged 000 total, wind		A sı		ło ski	mmed at	roof	top	level	ACTOS	Cashion, moving
	12 About			0	0	4	٥	Electrical		sou	heast. T	wo bui	ldings	were	dest	oyed a	nd two	homes lost their arages and a home
ad 70, 22210 county	9:00p.		1	ľ	Ĭ	7	•			Were	twisted	on the	ir foun	datic	ns, ı	hile a	short	-wave radio tower
					h res	ulting	fire	destroying the			gned to w	T 0119 1/9	110	٠.	1			
1	house and m	1	1	l		_	_	,,	Potegu, Leflore County	29	Early Afternoon			0	2	0	0	Electrical
Oklahoma County	13 2:50p. 5:00p.	20	*15	0	0	5	0	Heavy rain	1		boys were	knock						while standing i
		rains r	anged fr	rom 2.	) 06 ta	2,56	inches	across southern		the	r back va	rd. E	oth wer	e stu	nned	for a	while,	and required t legs which were
· (	two-thirds	of Oklai	homa C1t	ty wit	h unc	fficia	<b>1</b> 3.5	inches received r. Extensive	·	par	llyzed.		[				-	- 4.
i	street dama	PA VAS	caused b	asp	halt	surfac	ing be	ing washed away	Loyal, near,	29	Afternoon	8	*3	0	0	0	?	Rain
	when flash	flþodin,	g raised	i wate	r abo	ve the	curbs	ed damaged stock into stores, and	Kingfisher County	п.						411.4		northwest of
- 1	underpasses	and in	tersect1	lons w	here	water	raised	s were trapped in to a depth of	1	Loy	al where u	noffic	lal mes	surer	ents	01.0	to 8.7	northwest of inches were
	four feet. several und							errupted when			erved. So	me oro	p wash-					
	13 About			2	0	0	0	Wind	Oklahoma and North- eastern Cleveland	29	5:15p 7:50p.			٥	. 0	4	0	Tornado, rain, and lightning
Comanche County	4:00p.			~					Counties									<u> </u>
	Two adults	drwned	when th	pir f	ishin	g boat	Was C	apsized by waves		Hea	vy thunder	storms	moved	east	ard	cross	Oklah	mma City with
	kicked up b						cn acc	ompanied a small		at	inker Air	Force	Base 1	ith r	ost	of thi	fall	er to 3.70 inches ing prior to 6 PM. in the 3800
j.				0	1	2	0	Electrical		DIO	CK OT N. H	. 5617	i Straet	. 36	vera	r bers	ons sai	OTHE TOTAL THAT
Walters, Cotton County	6:00p.	ived min	or ini	ry wh	Ιi	ghtnin	g stru	ck her home. The	d.	umr	oofed and	two ot -flood	hers lo	se ro	ofin	g which	uas courre	parried spiraling Lat two locations
j	A ladv rece		1	1.	ter r	assins	throu	gh the television	."]	in	the north	est pa	rt of t	he C	ty,	hile	n und	rpass flooded on ther intersections
j	bolt knocke	d her u	nconscio	the ar	tove	where	ahe =+	cod preparing	4	1.1	35 at. 1	E 24	th Stre	iet. •	ig 65.	אתנות ב	rous o	ther intersections
j	bolt knocke set and thr dinner.	ough a 1	mall to	the s	tove	where	she st	cod preparing		and	underpass	es, E	xtensiv	et, s e 11g	s di htni	nume ng bur	ous o	ther intersections five transformers
Walters, Cotton County  Beaver 65W, Beaver	bolt knocke set and thr dinner. 15 8:00p.	ough a 1 - 4	rall to	the s	tove O	where	she st	2 Tornsdoes and		and	underpass damaged 1	es. E 2 othe	rs.	116	ntni	nume ng bur	ous o	ther intersections five transformers
Walters, Cotton County	bolt knocke set and thr dinger. 15 8:00p. 8:30p.	ough a 1	#1 to	the s	tove O	where 4	she st	·	OREGON	and	underpass	es. E 2 othe	xtensiv	116	ntni	nume ng bur	ous o	ther intersections five transformers

JULY 1963

	_		_	1	_		ı								<del></del>			-	JULY 1963
			PATH	Ē		OF SONS		ATED†					PATH	Ē	NO. PER		ESTIM/ DAM		
PLACE	DATE	ТІМЕ	LENGTH OF I	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF P	WIDTH OF PATH (YARDS)	מורבם	INJURED	PROPERTY	CROPS	CHARACTER OF STORM
PACIFIC AREA	10-						4	5	Typhoon	SOUTH CAROLINA Palmetto, High Hill,	2	1:30 p-	14	1700-	0	0	4	l <sub>4</sub>	Wind and hail
Guam	11									and Quietude Communi- ties, Darlington	Acco	4:30 p	light	1800 ning ar	d he	vy r	in. I	ail f	om 'g" to 3/4" in
•	Typi	ing damas	affec e to c	ted the rops, t	sout empor	hern ary	portions in	n of (	he Island of Guam, r facilities, s other damage.	County		red.	T 16TT	over E	rea	squ	re mi.	es wi	h ground 50%
	Thi	was the	es, wa third	typhoon	to a	ffect	the	sland	in 8 months.	Anderson County	7	6:00 p- 7:00 p			0	0	4		Thunderstorm
	NOT	will b	e foun	d in Cl	Imato	logic	al Dat	a, Nat	of this typhoon ional Summary		Fire Iva	by lightmand portion	ing in ns of	Willie the cit	mstor y of	; al	so dama	ging v	inds and rain in
PENNSYLVANIA		Annua1	1963,	and th	e Mar	iner	Weat	er Lo	for May 1964.	Brunson, Hampton County	9 Exte	8:30 p nsive dams	ge fro	m fire	0 to co	0 tton	5 in was		Lightning
Western Counties		Afternoon Evening					4.		Thunderstorms	Myrtle Beach, Horry County	12	Noon			1	0	٥	0	Lightning
	Prop	erty dama ced fires	se est	mated number	at up	to t	50,000 nd bar	resu	lted from lightning- ightning also burned d, but little or ne-	Pelzer, Anderson County	16 Fire	1:30 p from ligh	tning	destroj	o eda	0 amal	lı indu	0 trial	Lightning plant.
	dem	meny powe	tran ported	former	d. 8	ball	hail c	bcurre	d, but little or no	Bonneau Beach, Berke-	18		about	less than 20	0	0	3	0	Tornado
Lanedale		Afternoon			1.		4		Wind	ley County		noon way Depart moved nort	ment o	onfirme	d sma			touc	ed down briefly
	part	rkman was dally-com istorm.	crush pleted	d to d	eath Hool	when build	a bric	k and s blow	cinder block wall of n down by a freak	Pickens, Pickens County	20	Late afternoon			0	2	0	0	Lightning
Carlisle and Philadelphia		1.	1 -				5		Thunderstorm	Mount Pisgah section, Horry County	23	2:00 p			1	0	0	0	Lightning
		tning fir l damage				11816	and a	nome	in Penn Valley, with	Sumter, Southern Flo- rence and West Wil-		Late after			0	0	3	ь.	Thunderstorms
Near Coudersport		Evening			1	1		İ	Thunderstorm	liamsburg Counties	The	storms wer at and ligh	e acco	mpanie	by o	onsi	derabl	rain	as well as strong
	one shel	man was k lter under	illed which	the tw	ther o men	were	stand	ling.	ing which struck a	Florence, 4 miles NE,	28	2:50 p	1½	450	0	0	3		Tornado Funnel observed
Dillsburg	12 A b	7 P. M.	tcher	was str	l uck a	nd ki	lled h	y ligh	Lightning thing while he was	Florence County Charleston, Charles-	movi	mpanied by ng from so 3:00 p	uthwes	t to n	rthe	st.	iight.	o o	Thunderstorm
Scutheastern		nding on t	He pit	dher's	nound	Jus	prio	or to t	Thunderstorm	ton County	1	mpanied by	hail	and dar		1			
Counties	Str	ong winds	from t	hunders	torns	unro	ofed s	several	barns and knocked	North Charleston, Charleston County	31	3:30 p			1	0	0	٥	Lightning
	wir	n 2 silos es in the rhead oran	Pottst	own and	Kenr	aett S	Square	areas.	ees and utility In Allentown an	SOUTH DAKOTA Mitchell 8 M, 14E	1	10:30 4.			1	0	0	0	Lightning
Beaver County	20	1 P. M.			1				Thunderstorm		ĺ	er killed		htming #2	wh11	cul 0	tivati	eg cor	Hail
		isherman w ctrical st		rick and	kill	led by	y ligh	thing	iring a severe	Nount Rushmore- Keystone area	6	2:15 - 3:20 p.	3				•		.
Montgomery, Carbon & Northampton		Afternoon	1				5	4	Thunderstorms		age	nge hail i to buildi of Mount i	ge an	autom	l lar cbile	gest s. D	å inch emaged	4utos	sed extensive dam- were in parking
Counties	100	h ares	um a	dmrch	and d	lawne:	d meny	trees	garages, bent an and utility lines	Buffelo Gap	6	3:00-	5	*5	0	0	2	5	Strong wind and
	ple	oughout th tely wiped Norristown	lout h	y hail.	, I.I.	ghtni	ng fir	e¢ian (	ng valley was com- partment building			5:00 p.		100				-1	hail and larger caused
Beaver & Westmorelan	i .	1	1				5	,	Thunderstorm	-	ext	ensive dam	ge to	crops.	Sto	-	ved fr		• S.
Counties									hour swamped down-	Waubay-Watertown- Arlington area	6	6:30- 9:00 p.	70-80	*1-3	1	7	5	5	Strong wind and hail
	foo	t cement i	olock v	alls of	ollapa leen	soda:	s a re	sult o	g \$250,000. Two 9- f strong, rushing t. Near Latrobe		Far-	er fatall	iaju milki	red nea	wau nd of	110	men ba	corded	destroyed while
Lancaster County	lig	htning dea	roye	i a gare	180, 1	with ·	damage	estim	Thunderstorm		whi		d 3/4	inch an	d str	ong 1	rinds o	aused	extensive damage
Zanoni cor county	Eig	ht heifers	were					Lit:	itz, with loss placed Mt. Joy area.	Cresbard	7	7:30- 8:30 p.	5	*2	0	1	4	4	Heil and strong wind
Sunbury area	22	6 P. M.					3		Hail		Hai	1 averaged	l inc	h in di	emete	n wii	h lar	est at	ones 2 inches and hail damaged crops
	Sev	eral miles	south	and es	et of	Sun	bury h	all to and wh	golf ball size eat. Hail was still			buildings	Sto	# #OV6	d fro	<b>M</b>	to SW		·.
Southern Counties	a f	oot deep :		field	the 2	1	morni	ng.	Thunderstorm	Dallas-Faxton-Colome area	7	11:00- 12:00 p.	20	*1-2	0	7	•	4	Hail and wind
Pormitti comittes	.,	5 wear old	1 p1r1	was kil	lad )	h 11	ghtnin	g while	e walking across a	Groton-Verdon area	7	2:30- 4:00 p.	17	*4	0	,	1	4	Rail and wind
	fie	id near Borstown whi	edford He ric	ing in	a go	etru 15 ca 1000	ck and	kille Belin	d by lightning near sgrove R.D. women being struck by		Eai	1 to 1 i	nch co	ered [	round	50%	to 100		
	lie in	thtning. 1	Lightn:	ing fire	sd a	Johns	thun 1	upper	yard which resulted tore were fired by	Near McIntosh	9	night			0	0	4		Lightning
DIEDWO DYCO	116	phining.	<b>,</b> ,,							Hear Hot Springs	Fir 13	atarted	1 y 11g 8	tning *2	des tr	reyed 7	ranch	t t	Mail
PUERTO RICO RHODE ISLAND			NOR	repo	rted							1:06 a.		-	1				n to a inches dean
Quonset Point, Wash- ington County and Portsmouth, Newport	30	AM ord men inj	ured b	light	ning			0	Lightning		Are	l up to 3 a is mostl	renc	ps 414 bland.	Tres	2000	- E1	1	to 4 inches deep.
County	1	1	1	1	1		1			И,									

See reference notes at end of table.

				_								_	_ ′						JULY 196
			PATH	Ē	NO. PER	OF SONS		ATED†					РАТН	Ę.		OF SONS	ESTIM. DAM	ATED†	
PLACE	DATE	TIME	LENGTH OF F	WIDTH OF PATH (YARDS)	KILLED	INJURED	PROPERTY	CROPS	CHARACTER OF STORM	PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	KILLED	INURED	PROPERTY	CROPS	CHARACTER OF STORM
SOUTH DAKOTA (Con Codington and Denel counties	'd) 16	4:00- 6:30 p.	39	*2-4			4	4	Hail, wind and lightning	TENNESSKE (Cont'd Henry, Hickman and Giles Counties	13	7:00 - 9:00 p.			0	0	4		Mind .
	Ligh buil dema	tning set ding plus ge to crop	fire 1 about	\$21,000 1y in a	nty h in r	ighwood o	y sheequipment	at K	enzburg and e destroyed. Hail County into SE		Smal Coun Roos blow	y, near C t Communit down, an	ms wer oble i les of i 2 or	n Hickm Giles 3 smal	en Co Count 1 bui	unty Jdin	and the	k and he Wal ere up ged or	Buchanan in Henry es and Pigeon rooted, crops destroyed in each ty.
Huron	16	2:30 p.	ŧ	30	0	o	2	0	Tornado	Nashville, Davidson County	18	Afternoon	heboo	mimorviii.	0	O ement	4 s and	0	Rain
Righmore and vicinity		12:45- 1:15 a.	5	<b>*</b> 2	0	-	5	4	Heil and wind		on to	o downtow ibuted to through a	n stor	es dama. rovming	ging of a	the r	erchar	dise.	Rain indirectly hen water swept
White and vicinity	Hail to d	averaged apth of 1 1:05~	inch.	with Storm	arges moved	t st	nes 2 a SW to 5	ME.	s. Ground covered	Statewide	Viol	Afternoon int thunde a during	ratorm	s broke lar ecl	out ipse	in so	attere	d area	tind, rain, light- ning and hail s over much of the d, lightning or es, cattle, and
	mate	d 60 to 80	mph.	The h	il de	iven	by st	ong w	ies. Wind esti- nds caused an suffered 100%		util: area: Hail	ties. Am near Fai damaged t	ong ar rview, pbacco	Hedge in sma	re wil Count Ll ar	nd da y, at eas :	mage w d near ear La	as sev Turti fayett	es, cattle, and ere were small atown, Polk County, e, Macon County, received hail
Castle Rock and vicinity		of crops 6:30- 6:45 p.			0	0	4		Tornado and hail	Chattanooga, Hamilton	dama, 29	e in a sm Afternoon	all ar	ea near	Pred 0	onia, O	Goffe 5	e Cour	ty. Lightning, wind and rain ses, store windows,
	but	a trailer	house	right	ext t	o th	a hall	was n	si-circular area of moved. The high mowed. Hail Sail covered ground		autor tribu ning	obiles an	utili Lomobil	ities; : le acci	ain lenta	flood Or	ed str estest	eeta n damag	nd indirectly con- e was due to light- tion and other
Raymond 4 ME	26	4:00 p.	1	1000	0	0	4		asil covered ground	TEXAS Galveston County	1 Obs	5:15 p erved off	Galves	ton Isl	and.				Waterspout
Hear Gragory	buil 27	iings. 3:00 a.			0	0	4		at of good farm	1 W Winnsboro	A sa	6:50 p- 7:00 p mall torna tonwood tr	do des ees on	*100 troyed the D.	0 a bar P. I	O n and ougla	3 slice s farm	0 d the	Tornado tops from six mile west of
Gettysburg and Leban- on area		3:00- 3:30 p.	ted f	re whi	oh de	troy 0	ed far		Hail	:	gara hata 200	ige at the hery, kno	J. C. cked o A ho	Ross h ver a l use abo	ome, arge ut 40	cont: galva yar	inued u nized s from	pahi feeder the h	destroyed a  Il to a  and killed  atchery was
Hoven, Tolstoy and		averaged WMW to ES 7:00-		#4-5	arge	t st	ones 2		es Storm moved	2 NW Brownfield Terry County	6 Ta	5:15 p	short hed gr	narrow ound or	0 iefly	0 abou	0 t two	0 miles	Tornado northwest of
Onaka area	Hail	8:00 p.	l incl						es. Storm moved	2 N. Hartley Hartley County	11 A sı	9:00 p	short do dam	narrow aged a	0 barn,	0 util	? lity po	O les, s	Tornado ind trees. An
Cottonwood and vicinity		3:30- 4:30 p.	6	*2	O	0 meh	of or		Hail inch dsep. Field	Stratford Sherman County	dow	ha 300-fo	ot tell	evision	tran	ami.s	ion to	wer or	Wind es per hour blew the west side t, tree limbs
Clark County	crop	4:45- 6:15 p.	-50% (	destroy	d. \$	torm	moved 4	from 5	W to SB.	12 S Happy Swisher County	blo 13	m off, an 8:20 p 1 tornado	d tele short	vision narrow	enter O	nae d O	amaged	in St	ratford.
	comp		ered 1	but some					Ground was not nes deep. Storm	7 NE Port Arthur Jefferson County	mile	s northea	do toui	ched gr Port Ar	ound thur.	Th	e torna	dic wi	Tornado even to eight mis caused an vice Company
Near White Lake		evening started l	y ligi	tning	il		[		Lightning		nea: air dam gla	the Nech windows aged. One as when wi	es Riv broken girl ndowa	er Brid and bu in Brid on the	ge. ildin ge Ci	Barro gs si ty s	ls wer aken. staine	e hurl Radio d cuts	ed through the equipment was from flying were blown in
Campbell and Edmonds Counties								inch.	Hany areas hail	Victoria Victoria County	24 Viol	ing the st 3:00 p- 4:00 p ent thunds	12 rstor	*2 winds	0 with	6 gust	5 s meas	? ored a	Wind t 99 mph at the used an esti-
Balla Barrata	sout Stor doll	heast & or m moved fr ars and to	Campl on NW prope	to SE.	Demo	nd w	estern o crop	1/3 o	Edmonds County.		mate dama to a Vict	d \$375,000 ged area o bout six n oria were	dame extendentles iles estima	ge in Vi ed from mest sou ated at	ctor abou thwe 200	La ar t six st. mph.	dinju miles Winds Commu	red si north in the nity t	k persons. The east of the city north side of elevision that
Belle Fourche and vicinity		7:00- 7:30 p. ranged fi							Hany autos, roofs		demo	stood Hurn Lished by t Foster 1	icane this ield	Carla to torm. and arci	rithou The led a	it da damag round t. tha	mage we do are the n	ere co a appa orther nded r	mpletely rently began at n rim of the bughly from A television
TENNESSER Southeast Tennessee	7 Duri:	Afternoon	hunder	storms	0 light	0 ning	ļi L	scatt	Lightning and wind ered local damage d trees and blew		micr sect Term	owave reli ion was de ace, prac wast fence	y towe molish ically as were	er, loca med. A rno win maid a	few i	just mndr mge roof	north ed yar occurr s dama	of the ds awa ed but ged, p	Inwood Terrace y, in Inwood to the north ower line poles attered through-
Middle and East Temmessee	down 8	corn in a Through- out day	few a	reas.	o	0	L L	o	Lightning, wind		out On N	the city lorth Main of a super	y les Stree market	er wind , a land to	ls on ge s rosma	the actio	fringe n of p hildre	of the late gon hurt	main force. lass was broken by flying glass. er house over-
	from by 1 dama Colu	the Nashv ghtning s ge to an a bia, Maur	trikes trine trline y Cour	Just Park	Ridge litie at Na owing	area s and shvil rala	ia Ca	instant	mainly southward damage was caused Wind caused minor 2 houses near o furniture, and	:	of a in V	ed. At M home and ictoria we ding near letely der	ssion two be s leve	Valley, arns. P eled by Wavarro	the lason the and	stro ry wo corce	ng win rk on of th ttsvil	ds ble a new e wind le hig	w off the roofs business building A business

EXECUTION 1. The property of the control of the con	JULY 1963	Ju																				
TEXAS (Cont. c)  TEXAS		·						¥.	PATH									Ħ.	РАТН			
Standard Commission  And Commi	)F	CHARAC OF STOR	CROPS	PROPERTY	INJURED	KILLED		WIDTH OF P.	LENGTH OF (MILES)	TIME	DATE	PLACE	0F	CROPS	PROPERTY	INJURED	KILLED	WIDTH OF P. (YARDS)	LENGTH OF (MILES)	TIME	DATE	PLACE
A correct convey, profiled on there and programs, priging and of convey, profiled on the call programs, priging and of the convey of the conve		Lightning										Northeastern counties	Tornado	7	?	0	0	?	?	9:15 p-	2)4	Montgomery and
The forecome country  To a suppose the first and allace country  Set [ 25] 25 p 2 7 7 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0	ain			very ires,	est :	mpana d for	and	range	veral	ted in se	resu!	National Forest	ripping and	ines,	ower l	and p	trees	down t	cking	rnado cut lonroe, kn	of d	Walker Counties
Subdivine steamed and stated giold control of the second of the control of the co	mage in a	n crop dama	ited i	resu	hai	nd and	rio:	of per a Wall	a bri r Wall	rain for	Heavy		County and the	omery	Montg	rea of	llis ar er Cou	he Will Walker	in ti rea in	damage was Waverly as	the New	
strong timedes formed finds force for a patch post, proceedings and according required and forces, operations and apprently as sociated with the same pland sensed 5000 damps to found simples of Reynon flores and a sense pland sensed 5000 damps to found simples of Reynon flores and a sense pland sense pland sensed 5000 damps to found simples of Reynon flores and a sense pland	ity were	Thunderstor of the cit	areas	a few	s in	liti	ac	ion fa	micat	morning and comm	Power	Spokane	a home in the	ge to	o dama	\$150	timated	an esti	used	2:30 p indstorm ca	A wi	Jefferson County
specimently selected with the same blood denamed \$5000 damages to recomplete the state of them at previous proportionally of the same and the same a	esulted in	period res	brief	for a	fall	rain	ts ts	V area	htning Few lo	ed by lig ing in a	dama; flood	   West virginia	overturned a	roof, lawn cl	patio	off a	s tore sed gar	winds strewe	storm r and	ing thunder ing trails	stro camp	-
20 SM Kingwille   25   750 p 2   20 0 0 0 0 7 0 0 Terrado   1 terrado control protect for fetche supervision of A ternado dispend down or method control year to the control protect for fetche supervision of A ternado dispend down or method of the control protect for many designs of the				·				l .		8:00 PM		Ravenswood, Jackson County	\$5000 damage to	caused	cloud	same	h the	ed with	ociat	rently as:	appa four	
were the property of the properties were not changed. Serviced thilly the hear was core spart but the other properties were not changed. Serviced thilly show were energed off by the terratic date.  Jefferson Co. Airport of the facility show were energed off by the terratic date.  Jefferson Co. Airport of the facility show were energed off by the terratic date.  Jefferson Co. Airport of the facility show were energed off by the terratic date.  Jefferson Co. Airport of the facility show were energed off by the terratic date.  Jefferson Co. Airport of the facility show were considered of the facility show were considered of the facility show were considered of the facility show were considered of the facility show were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered of the facility shows were considered on the facility shows were considered on the facility shows were considered on the facility shows were considered on the facility shows were considered on the facility shows and support and the facility shows and the facilit	ward . Filling	velled towa	nd tra	od a	vens ved	of Ra	NW C	her Ni	toge funne	ed to come SE." Two	seen the		miles southwest	ut 20 1	ry abo	count	ranch	wnoni	bed do	rnado dip	A to	
Activement Co. Altypert Jefferson County  Afferson County	almost		.	powe	an	Tree	8.	dings	town.	y area of	ever		atter ranch, a ses and a wind-	the 1	n. On betwe	Ranc	Carale:	Gus Ca	h the	Ranch wit	King	
Jefferson County  Vicinit inturderstory winds struck the Jefferson County Airport at Nederland, Tozasa Windows, Samped routing, Station were measured at 66 mph. Approximately 8000 damage was counded on the elaptory, including between windows, Samped routing, and D. J. and interaction as mallar items. All browns windows of D. J. and interaction as mallar items. All browns windows of D. J. and interaction as mallar items. All browns windows of D. J. and interaction as mallar items. All browns windows of D. J. and interaction as mallar items. All browns windows of D. J. and interaction as mallar items. All browns windows of D. J. and interaction as mallar items. All browns windows of D. J. and interaction as mallar items. All browns windows of D. J. and items. All browns windows of D. J. an	ings.				on a	ling	ra 1	the fa	s and				by the tornadic		snapp	were	y poles		ral u	ged. Seve	dama wi.nd	
counted on the kinyort, including broken windows, hanged roofs, damaged amaged and windows dearly off the pubbles and desired.  Van Alstyne Grayson County  Van Alstyne Grayson County  Van Alstyne Grayson County  Van Alstyne Grayson County  Van Alstyne Grayson County  Van Alstyne  Van Alstyne  A mull Corrado uproted several peach tree and desired.  A mull Corrado uproted several peach tree on the Saybond Statement corr and raised on the Check farm's native. The topmade did not hit my laidings. Aground statement corr and raised on the Check farm's native. The topmade did not hit my laidings. Aground statement corr and raised on the Check farm's native. The topmade did not hit my laidings. Aground statement of the statement counties of the statement of the stateme	••		super	s and	.011	,	III OPA	s wind	e STE			WISCONSIN	County Airport ather Bureau	S. We	Jeff the U.	ck th	is str nd gust	Wind	rstor Texas	ent thunds dederland,	Viol at N	
Van Alstyne Grayson County  Van Alstyne Grayson County  Van Listyne Grayson County  Van Co			1	up to	hail	ra of	ter	Diamet	ity.	9:00 PM	1	Near Viroqua	damaged roofs, ige, wing damage	ndows,	ken wi uctura	ng broi	ncludir s, mino	wells,	airpo door	sed on the aged hangar	caus dama	
wast-old peech trees on the Saytond Burton Farm hear Yam Alstyne, and harded helderny trees off at the ground, and littletend corr and saise on the Sheid farm nearby. The tormade did not hit my buildings. Approximately three and one-half inches of rain accompanied the storm.  None reported					we st	-nort		1		5:00 PM	i	Kenosha County	Tornado	?	?	0	0	100	1/2	5:30 p	29	
UTAH  WENGET  Franklin and Orleans  Counties  2	touched	Funnel to	inois.	, m	tio	ard A	ove	by Bto	Count	several t	H1 gh		hear Van Alstyne,	farm :	iunter	mond	the Ray	s on th	tree	r-old pecar	year	Grayson County
WESTERN Counties  None reported  O O 4 O Wind, electrical Settered hall storms with identices 2" to 3" near Montello Counties  Swanton  2 Afternoon and profess were and or classalties. Trees and power and price lines were and or classalties. Trees and profess and profess and profess and profess and profess trees the profess of the pro	Line Racine	Squall lin	y and	5 Count	2 orth	a Wal	ero	easte	ere i	5:00 PM most sev	Stor	Southeastern Counties	half inches of	d one-	ee an	ly th	oximate	Approx	ings.	any build	hit	
Tomade squalls reled border areas of both counties. Trees and power and pione lines were and or casualties.  Swanton  Swanton  Swanton  Swanton  Swanton  Swanton  Swanton  Swanton  Swanton  Swanton  Swanton  Swanton  Swanton  County  Swanton  Swa	lo and				era	ii ame	h d			afternoon tered hail	19 Scat	Central Counties	Ward alashedaal					e repo			_	VERMICHT
Swanton  4 515 D, 8 500 0 0 5 0 Tornado Tornado noved est ware from Maquam Shore (Lake Champlain) through Swanton Village to Highgate Falls. Demage consisted of felled trees and power lives.  Franklin County  22 5 p. A mall but violent wind starm strack in the area between Swanton and St. Albans, Demage was limited motily to trees, In concease, large sections of a hungs maple tree ware ripped and lifted ento mearly high level power lines.  Western counties  29 Ifternoom Tiblest thundersqualls between the section was a beside stretch along the St. Albans shore area free Shanty Fount to Sampon's Point, Two persons were injured drave through a field libe natchaticies. On Marquam Shore Road utility poles were blown over. Trees and branches were felled widespread through the storm area.  U. S. VIRGIN IS.  VIRGINIA Lunenburg County  22 Evening A thunderscorp with large hail described as large as "hen eggs"  5 Tornado Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado of yards.  5 Tornado serve chirty miles seuthweet of Newcastle. I ninor damage.  6 Tornado of yards.  7 A Hail & Electrical 1 Less than \$50 2 \$50 to \$500 3 \$500 to \$500 4 \$5,000 to \$50,000 4 \$5,000 to \$50,000 5 \$500 00 \$500 000	4-4	W-43				,				lander.								ided box		and evening		
through Swarton village to Hidngate Falls, Damage consisted of felled trees and power lines.  22 3 p.  3 mail but violent wind stars strack in the area between Swarton and St. Albans, one case, large sections of a huge mark tree were ripped and lifed ento mearby high level power lines.  Western counties  Western counties  28 Afternoon Villant thurdersqualls betweed all western counties except Beanington (county, Rardest hit settlen was a bealts stretch along the St. Albans shore area from Shenty Point to Sampson's Point, Two persons were injured there by flying glass. Small boots were lifted from the water and hursdanders through a field like magtchattice. On Marquan Shore Road withlifty poles were bild like magtchattices. On Marquan Shore Road withlifty poles were bild with magtchattices. On Marquan Shore Road withlifty poles were bild with magtchattices. On Marquan Shore Road withlifty poles were bild with magtchattices. On Marquan Shore Road withlifty poles were bild with magtchattices. On Marquan Shore Road withlifty poles were bild with magtchattices. On Marquan Shore Road withlifty poles were bild with magtchattices. On Marquan Shore Road withlifty poles were bild with the stars are and tranches were felled widespread through the storm area.  VIRGINIA  Lunenburg County  22 Evening A thunderstorm with large half described as large as "hen eggs"  A fall is early described and count counties  31 early  470MING  Burns 5 N  12 Afternoon  1 1 0 0 Lightnin  Lightning struck and killed one man and injured anothe ing slong side.  Weston County  14 6:50 p. ? ? 0 0 5 0 Tornado  Tornado struck thirty miles southeast of Newcastle. I minor damage to ranch outbuildings and an abandoned co school. The tornado movel north-northeast.  * Includes crop damage.  * Crop damage.  * Crop damage.  * Vards instead of miles.  * Yards instead of miles.  * Yards instead of miles.  * Storm damages are placed in categories varying from 1 to 9 as 1 Less than \$50  2 \$500 to \$500 00  4 \$5,000 to \$5,000	ng Hardest	lightning htning. He	by lig	lled	an k umbi	Wo	ich.	l inc	up to	diameters were Marqu	Hail	ror variey area	Tornado	0	sualt 5	der c	were m	200 W	ione 1. 8	6:50 p.	po 4	Swanton
Pranklin County  A Reall but violent wind storm strick in the area between Swenton and St. Albans, one case, large sections are interested and if a large interested in the area between lifed ento meanty high level power lines.  Western counties  Western counties  Western counties  Western counties  Western counties  Western counties  Western counties  Western counties  Wind a large the strict in the stric										early			o Champian)	(Lake	Shore Fall	Lghgat	e to H	illage	ritom ⊽	hrough Swai	ŧ	
western counties  Western counties  Western counties  28 Afternoom Victoria from the devel power lines.  29 Afternoom Victoria from the devel power lines.  29 Afternoom Victoria from the varies and the settle varies at the counties except Bearington County. Hardest hit settlen was a beatle stretch along the 5t, Albans shock area from Shashry Count to Sampeon's Point, Two percons were injured there by flying glass. Small beats were lifted from the water and hursel more than 100 feet. A pile of lumber was picked up and driven through a field like matcheticies. On Marquan Share Road utility poles were blown over. These and branches were felled whose pread through the storm area.  U. S. VIRGIN IS.  VIRGINIA Lunenburg County  A Hail & Electrical A Hail & Electrical A thunderstorm with large hall described as large as "hen eggs"  A Hail & Electrical A Hail & Electrical A Hail & Electrical A Sp. 000 to \$50,000 A \$5,000 to \$50,000	le.	d orchards.	ops an	to cr	mage	1. D	nch	to 1 ir	uup 1		Hai	WYOMING	area between ostly to trees. In	the a	ack iz 1imi	na star Lee Wa	nd sto Den	libans.	St. A	small but	A St	Franklin County
Violent thurdersquals bettered all resterm counties except Bearington County Hardest hit sertice was a semile stretch aling the 5t, Albans shocks area from Shanty Foint to Sampson's Point, Two percons were injured there by flying glass, Small boats were injured there and hursda note than 100 feet, A pile of lumber was picked up and driven through a field like matchatches, On Marquan Shore Road willity poles were blown over. Trees and branches were felled widespread through the storm area.  U. S. VIRGIN IS.  VIRGINIA Lunenburg County  22 Evening A thunderstorm with large half described as large as "hen eggs"  A Hail & Electrical A Hail & Electrical A thunderstorm with large half described as large as "hen eggs"  5 \$50 000 to \$50,000		Lightning ed another					112	nd kil	uck a	tning str	Ligh		were ripped and	tree	maple line	huge powe	ns of a	ection	nearb	ne case, l	1	
Point. Two percents were injured there by flyths glass. Small school. The tornade movel north-mortheast.    Point. Two percents were injured to the steer and hursed move than 100 feet. In place of lumber was picked up and drives through a field like matcheticies of Marques Shore Road willity poles were blown over. These and branches were felled whose pread through the stem area.    U. S. VIRGIN IS.	It did	astle. It	Newc	st o	uthw	es 8	11	ty mi	k thi	ado struc	Torr	Weston County	omties except 2-mile stretch	TRO &	l west	red al	batte:	/ Har	ndersq County	iclent thu	V: Be	Western countles
over, free and transhes were felled wisespread through the storm area.  U. S. VIRGIN IS.  VIRGINIA Lunenburg County  A Hail & Electrical Lunenburg County  A thunderstorm with large hail described as large as "hen eggs"  A thunderstorm with large hail described as large as "hen eggs"  A thunderstorm with large hail described as large as "hen eggs"  A thunderstorm with large hail described as large as "hen eggs"  A thunderstorm with large hail described as large as "hen eggs"  A thunderstorm with large hail described as large as "hen eggs"  A thunderstorm with large hail described as large as "hen eggs"  A thunderstorm with large hail described as large as "hen eggs"	·	1	st.	rthe	th-n	d no	ve	do mos	torna	bl. The	scho	° Includes ero	ing glass. Small ore than 100 feet. ough a field like	y flyi eled mo on thro	here l nd hur drive	ured t ater a up and	re inj	i from was pi	perso lifted umber	oint, Two oats wers nile of 1	Po bo	
VIRGINIA   22   Evening   22   Evening   A thunderstorm with large hail described as large as "hen eggs"   4   5,000 to \$50,000   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   500,000   5   5   5   5   5   5   5   5   5										yards.	d of	C Crop damage.  * Miles instea	les were blown ead through the	despre	util: led w	e Road re fel	n Shor het wa	branch	e and	ver. Tree	0	
Lunenburg County 22 Evening ? 4 Hail & Electrical 4 \$5,000 to \$50,000 A thunderstorm with large hail described as large as "hen eggs" 5 \$50,000 to \$50,000	; follows	to 9 as:	om 1	ng fi	ary	ies v	ori	atego	inc		\$50 00	1 Less than 2 \$50 to \$5	-				orted	repo	None			
brought extensive damage from q miles south of Menoringe south 6 \$500,000 to \$5,000,000									0	,000 00,000	\$50 o \$5	4 \$5,000 to 5 \$50,000 t	ge as "hen eggs" Kenbridge south-	as lar	ibed s sou	6 mil	e from	damage	n wit	thunderstor	A t	
eastward to the Bruhswick county lide. Lightning associated  with this storm caused a fire which destroyed a storage building and all its contents.  **S5,000,000 to \$50,000,000 and all its contents.**  **S5,000,000 to \$500,000,000 to \$500,000,000 and all its contents.**  **S5,000,000 to \$500,000,000 to \$500,000,000 and all its contents.**									,000 00,00	\$50,000 \$500,0	0 to	7 \$5,000,00 8 \$50,000,0						used a	ora ca	th this sto	wit	!
Pittsylvania, Campbell 23 Afternoon 1 4 ? Hail & Electrical  County  An intense electrical storm moved from near Danville northward to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of this type of date to the difficulties inherent in collection of the date to the difficulties inherent in collection of the date to the difficulties inherent in collection of the date to th	ata,	pe of dat	is ty	f th:	on o	lecti	01 l	in co	rent	ies inhe	cult	due to the diffi	ville northward to	ar Dan	om ne	oved f			lectri	intense e	An	
southwestern section of Campbell County. Lightning caused extensive fire damage to a church and home in Altavista and corrections will be car ried in the June and December issues of this publication.	ar-	II be car	tion.	lica	pui	this	a a of	ues o	layed r iss	ive. De Decembe	clus and	it is not all-in ried in the June	tning caused Altavista and	Light in A	unty.	ell Co urch a	Campbo oach	on of (	secti re dam	uthwestern tensive fi	ext	
at Altavista was octupied by the fine of the fine and owner hospitalized for a short time. Minor hail damage to tobacco crops.  Minor hail damage to tobacco able to the Superintendent of Documents. Remittance and correspondent of the Superintendent of Documents. Remittance and correspondent of the Superintendent of Documents. Remittance and correspondent of the Superintendent of the Superinten	pay- ond-	be made p correspon- ndent of	ould   and o rinter	s she ance Supe:	rden miti to	ney o . Re sent	mon ts. e's	and m ument ild be	ecks f Doc shou	ign. Ch endent o riptions	fore rint ubsc	domestic, \$2.00 able to the Supe	ire and owner	the fi	nte of	the ti	ed at i	ckupie	was o	Altavista spitalized	at hos	
Hampton Roads  28 Afternoon 1 ? ? Rail & Electrical A man was killed instantly by lightning while fishing at Hampton Roads. Rainfall from scattered thurderstdrms through the southern section of the state gave some temporary relief to the severe drogght, but minor hail dabage to crops was reported in some		C. "	, р. (	n 25	ngt	Wash1	, w	fice,	ng Of	t Printi	'nmen	Documents, Gover	fishing at Hampton through the southern f to the severe	ville f crms t relief	ing winderst	ed thu e temp	tly by catter ve som	rom sca te gav	lled i fall f he sta	man was ki ads. Rain ction of t	Ros	Hampton Roads